ARS-2030L/2032
Copy Smart Plus

CD Duplicator
User's Manual

—— Ver: 1.4 ——

Attention:

It takes over 5 seconds to power on after shutdown otherwise the system may operate abnormally.

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ACARD TECHNOLOGY

WEEE Statement

WEEE Statement **English**

In order to cope with the increasing waste electrical and electronic equipment, reduce the use of landfill and incinerator, and prevent the harmful matter of waste equipment from entering the environment, the European Union (EU) has set the Directive on Waste Electrical and Electronic Equipment (WEEE) asking manufacturers to collect, recycle and treat waste electrical and electronic equipment properly. Member nations already established their free of charge recycle systems of WEEE before August 13, 2005. Accordingly, ACARD has to be responsible for recycling all products exported to Germany. You can return your ACARD product that needs recycling to a local collector.

WEEE Erklärung **German**

Mit dem Ziel die steigende Menge elektrischer und elektronischer Altgeräte zu bewältigen ohne hierzu unnötig Mülldeponien und Verbrennungsanlagen zu belasten und um die Verschmutzung der Umwelt durch freiwerdende Stoffe aus den Altgeräten zu vermeiden, hat die Europäische Union (EU) die Richtlinie über Elektro- und Elektronik-Altgeräte erlassen. Die Richtlinie verpflichtet Hersteller, elektrische und elektronische Altgeräte umweltgerecht einzusammeln, zu recyceln und zu entsorgen. Die Mitgliedsstaaten der EU haben bereits ihre kostenfreien Recyclesysteme konform der WEEE vor dem 13. August 2005 eingerichtet. Entsprechend der Richtlinie ist ACARD verantwortlich für die umweltgerechte Entsorgung aller nach Deutschland exportierten ACARD Produkte. Sie können Ihr zu entsorgendes ACARD Produkt zu Ihrer örtlichen Sammelstelle bringen.

AEEA verklaring **Dutch**

Met het doel de stijgende hoeveelheid afgedankte elektrische en elektronische apparatuur te beheersen zonder hiervoor onnodig stortplaatsen en verbrandingsovens te belasten en om de vervuiling van het milieu door vrijkomende stoffen uit de afgedankte apparatuur te voorkomen, heeft de Europese Unie (EU) de richtlijn betreffende afgedankte elektrische en elektronische apparatuur besloten. Deze richtlijn verplicht fabrikanten afgedankte elektrische en elektronische apparatuur in te zamelen, te recyclen en te verwijderen. De lidstaten van de EU hebben reeds de kosteloze recyclesystemen volgens de AEEA vóór de 13 augustus 2005 ingericht. Conform de richtlijn is ACARD verantwoordelijk voor de verwijdering van alle naar Nederland geëxporteerde ACARD producten. U kunt uw afgedankt ACARD product naar uw locale inzamelplaats brengen.

Elektrik ve Elektronik Madde Atıkları Demeci **Turkish**

Elektrik ve electronik madde atıklarının yukselmesiyle basedebilmek ,arazi doldurma ve cop yakma fırını kullanımını azaltmak,atık madde zararlarının cevreye yayılmasını onlemek icin Avrupa Birligi (AB),ureticilerden elektrik ve elektronik madde atıklarını gerektigi gibi toplamalarını,geri donusturmelerini ve kimyasal isleme tabi tutmalarını talep etmek icin Elektrik ve Elektronik Madde Atıkları uzerine bir direktif hazırladı.Topluluk uyeleri,13 Agustos 2005' ten once elektrik ve elektronik madde atıklarının ucretsiz geri donusum sistemlerini coktan olusturmuslardı.Bundan dolayı, ACARD, Almanya'ya ihrac ettigi butun urunlerin geri donusumunden sorumludur. ACARD urunleri geri donusum gerektirirse yerel toplayıcılara geri verebilirsiniz.

WEEE бюлетень **Russian**

Чтобы справиться с увеличивающимся ненужным электрическим и электронным оборудованием, уменьшите использование закапывания мусора и использования установки для сжигания отходов, препятствуйте вредному выбросам загрязнять окружающую среду, Европейский союз (ЕС)установил Директиву по Ненужному Электрическому и Электронному Оборудованию (WEEE) для того, чтобы изготовителей собрали, перерабатывали и вообще проявили внимание к ненужному электрическому и электронному оборудованию должным образом. Члены нации установили бесплатную систему переработки WEEE до 13 августа 2005. Соответственно, ACARD обязан быть ответственным за то, что переработал все продукты, экспортируемые в Германию. Вы можете возвратить ваш продукт ACARD, который нуждается в рециркуляции местному сборщику.

WEEE Statement **French**

Afin de gérer la quantité croissante de déchets électriques et électroniques, de réduire l'utilisation des décharges et des incinérateurs et d'éviter que des déchets nocifs ne polluent l'environnement, l'Union Européenne a publié la directive WEEE sur les déchets électriques et électroniques. Celle-ci spécifie que les fabricants doivent collecter, recycler et traiter l'équipement électronique et électrique usagé. Depuis le 13 août 2005, les pays membres ont mis en place un système de recyclage gratuit selon le WEEE.

De ce fait, Acard est responsable du recyclage de tous les produits exportés vers l'Allemagne. Vous pouvez mettre au rebut votre équipement ACARD usagé dans votre centre local de recyclage.

Pour plus d'informations sur les lieux de mise au rebut des équipements usagés destinés au recyclage, veuillez contacter votre mairie, votre service de traitement des déchets ménagers ou le magasin où vous avez acheté le produit.

RAEE **Spanish**

Con la finalidad de reducir el incremento de residuos eléctricos y de material electrónico, reduciendo el uso de los vertederos e incineradoras y prevenir el preocupante aumento del contacto de estos residuos con el medio ambiente. Por este motivo la Unión Europea ha fijado la Directiva de Residuos de Aparatos Eléctricos y Electrónicos (RAEE) solicitando a los fabricantes la recolección, reciclaje y tratamiento de ests residuos correctamente. Los paises miembros ya han establecido su sistema de reciclaje gratuito de RAEE antes del 13 de Agosto del 2005. Por este motivo ACARD es el responsable del reciclaje de todos los productos exportados a Alemania. Usted puede devolver su producto ACARD a un punto de recogida local cuando desee reciclarlo.

Dichiarazione WEEE **Italian**

Per far fronte all'aumento dei residui delle apparecchiature elettriche ed elettroniche, ridurre l'uso di materiale di riporto e degli inceneritori, ed impedire che il materiale nocivo delle apparecchiature residue entri a contatto con l'ambiente, l' Unione Europea (UE) ha stabilito le Direttive sui Residui delle apparecchiature Elettriche ed Elettroniche (WEEE) chiedendo ai fornitori di raccogliere correttamente, riciclare e trattare le apparecchiature elettriche ed elettroniche residue. Le nazioni facenti parte dell' Unione Europea hanno già stabilito il loro sistema gratuito di riciclaggio di questo materiale (WEEE) prima del 13 agosto 2005. Di conseguenza, ACARD è responsabile del riciclaggio di tutti i prodotti esportati in Germania. Potete restituire il vostro prodotto acquistato da ACARD che deve essere riciclato da un' azienda specifica locale.

Table of Contents

Chapter 1 Introduction 6
1.1 Features 6
1.2 Specifications 6
Chapter 2 Installation 8
2.1 Copy Smart Plus Only 8
2.2 A Whole System 8
2.3 A System without CD Writers 8
2.4 How to Install 9
Chapter 3 Basic Instructions 13
3.1 Buttons and LCD 13
3.2 About HDD Installation 14
3.2.1 With an HDD 14
3.2.2 Without an HDD 15
3.3 Board Layout 17
Chapter 4 Functions 19
4.1 Copy 19
4.2 Test 20
4.3 Test & Copy 21
4.4 Verify 22
4.5 Compare 23
4.6 Prescan 24
4.7 Disc Info 25
4.8 Select Source 26
4.9 Image 27
4.9.1 Load 27
4.9.2 Delete Image 28
4.9.3 Image Info 29
4.9.4 Compare Image 29
4.9.5 Select Image 31
4.9.6 Select Src Drive 31

4.10 Edit Track 32
4.10.1 CD to CD 33
4.10.2 CD to HDD 37
4.10.3 Play Audio Track 42
4.10.4 Close Session 43
4.11 Setup 44
4.11.1 Language 45
4.11.2 Burn Speed 45
4.11.3 Read Speed 46
4.11.4 Auto Start Drive 46
4.11.5 Startup Menu 47
4.11.6 Auto Verify 47
4.11.7 Auto Compare 48
4.11.8 Auto Prescan 48
4.11.9 Eject Disc 49
4.11.10 Burn On The Fly 49
4.11.11 Burn Mode 50
4.11.12 Button Sound 51
4.11.13 Device Info 51
4.11.14 System Info 52
4.11.15 Quick Erase 53
4.11.16 Full Erase 54
4.12 Adv Setup 55
4.12.1 UnderRun Protect 55
4.12.2 Overburn 56
4.12.3 Read Error Skip 56
4.12.4 Format HDD 57
4.12.5 Verify HDD 57
4.12.6 Burn-in 58
4.12.7 Update Firmware 59
4.12.8 Compare Firmware 60
4.12.9 H/W Diagnostic 60
4.12.10 Load Default 61
4.12.11 CD+G 62
4.12.12 ISRC & MCN 62
4.12.13 Switch Link-Host (optional) 63

Chapter 5 Troubleshooting 64
5.1 About LCD 64
5.2 About Error Messages 64
5.3 About CD-ROM/CD Writers 64
5.4 About Buttons 64
5.5 About CD Writer Not Readable 65
5.6 About High Failure Rate 65
5.7 About Firmware Update 65
5.8 About Function 12 and Cancellation 65
Appendix A About AEC-4420P/PB 66
Appendix B LCD Messages 80

Chapter 1 Introduction

ARS-2030L and ARS-2032 are especially designed for copying CD in video, audio or data form. ARS-2030L is for 3 CD writers while ARS-2032 for 7 writers. These two duplicators make copying easy and efficient. Professionally mechanical design, multifunctional LCD and 4 simple buttons on the panel are very helpful in operation. For any end-user the two models are really cost-effective.

1.1 Features

- IDE to IDE Copy Controller.
- Built-in SCSIDE technology.
- 4 (2030L) /8 (2032) independent IDE channels.
- Power-on self test.
- Support HDD.
- Automatic format detection.
- User-friendly interface with LCD messages.
- Fast copying on high-speed CD writers
- Easy operation without installing software and extra training.
- Firmware update through CD-ROM.

1.2 Specifications

Power	Voltage: 5V±5%
	Current: 0.5A Max
Environment	Operation: 0°C to 60°C
	Storage: -20°C to 85°C
Humidity	15% to 90%

Dimension	L 200 mm
	W 146.2 mm
	H 42 mm
Connector	40-pin internal IDE connector
Cable	ATA-66 (under 46 cm)

CD Format : CD-ROM (Mode1 & Mode2), CD-ROM/XA (Mode2 form1 & form2), CD-DA, Mixed-Mode, Video CD, CD-1, Karaoke CD, Photo CD (Single & Multi-session), CD-Extra, HFS, CD-Bridge, ISO9660, CD-R and CD-RW

Supported CD-ROM : TEAC

Supported CD-RW : Plextor, TEAC, Sanyo, Nichimen, SONY, RICOH

Please visit the web site of ACARD to get the newest data.
http://www.acard.com

Chapter 2 Installation

Before installing your copy smart plus, please note that there are three kinds of packages: the copy smart plus only, a whole copying system and a system without CD writers.

2.1 Copy Smart Plus Only

- Unpack the package.
- Check if there is any defect or malfunction.
- Prepare a CD-ROM and CD writers.
- Prepare a 5.25" external case (5~10-bay chassis).
- Prepare an HDD and a mobile rack (optional).
- Prepare switching power supply (300W).
- Make all IDE devices in Master mode.

2.2 A Whole System

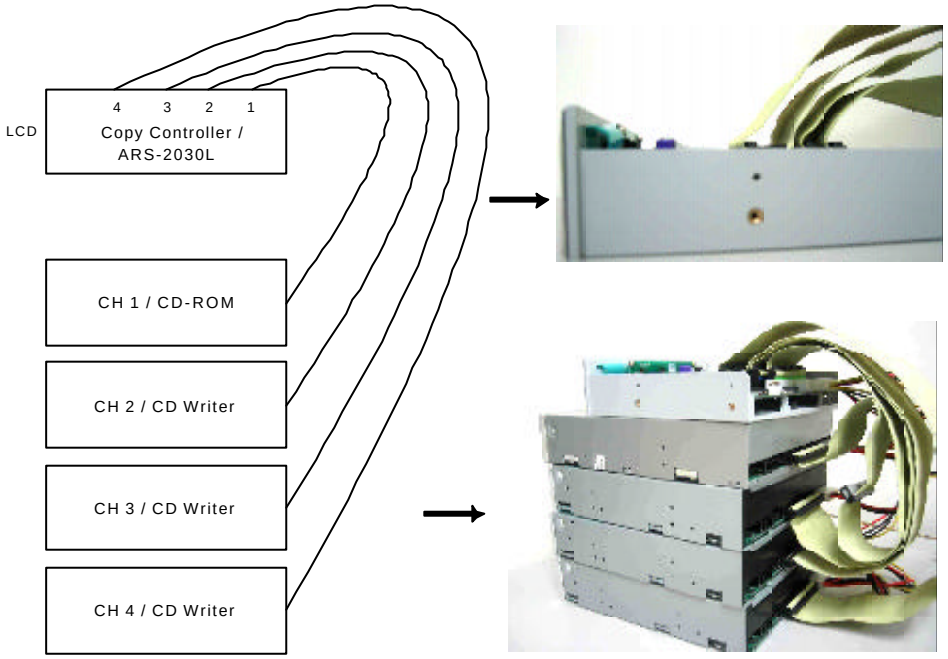
- Unpack the package.
- Check if there is any defect or malfunction.
- Be sure that voltage is set correctly.
- An HDD (optional).

2.3 A System without CD Writers

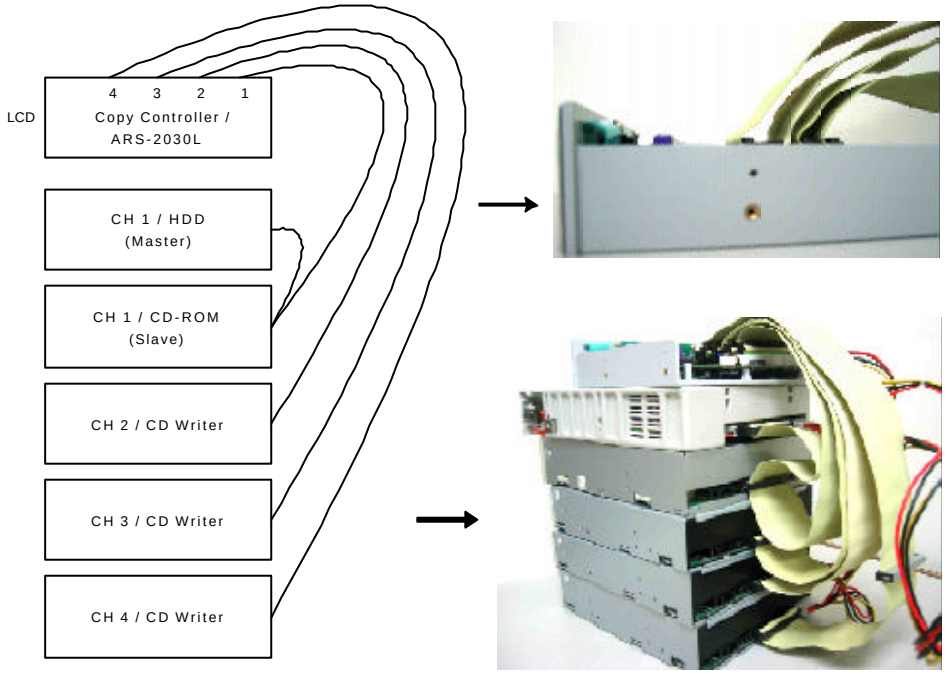
- Unpack the package.
- Check if there is any defect or malfunction.
- Prepare suitable CD writers according to the list given in subsection 1.2.
- Assemble the copy smart plus according to your needs.
- Be sure that voltage is set correctly.

2.4 How to Install

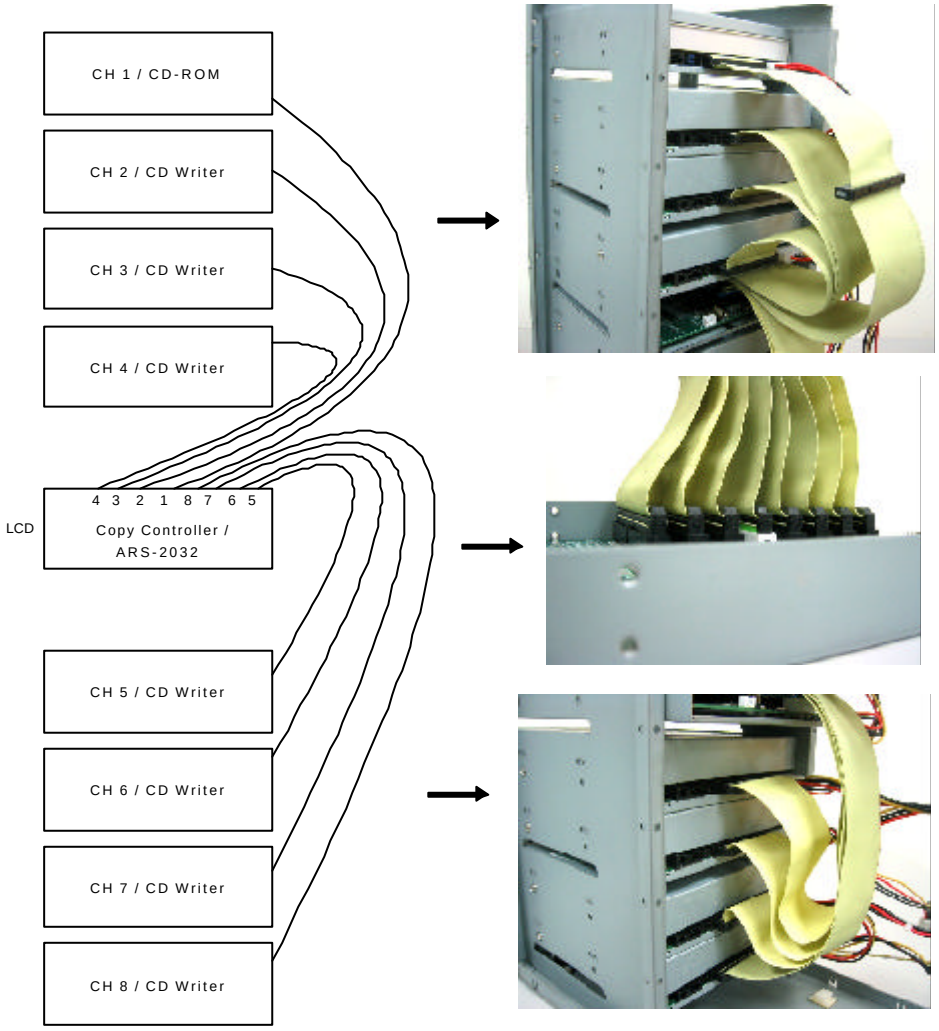
The following diagram and pictures indicate the installation of ARS-2030L copy controller with a CD-ROM and 3 CD writers.



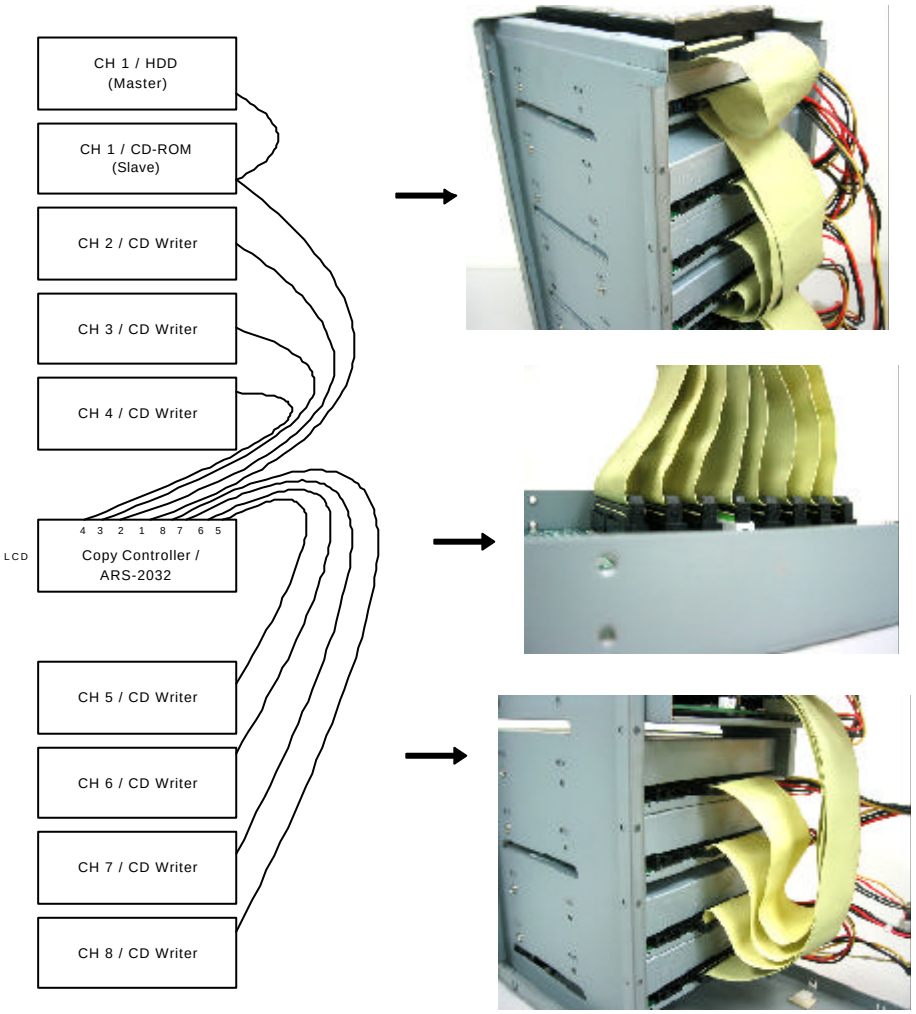
The following diagram and pictures indicate the installation of ARS-2030L copy controller with an HDD, a CD-ROM and 3 CD writers. The second picture shows that HDD is put inside a tray.



The following diagram and pictures indicate the installation of ARS-2032 copy controller with a CD-ROM and 7 CD writers.


CH 1 / CD-ROM
CH 2 / CD Writer
CH 3 / CD Writer
CH 4 / CD Writer
LCD
4 3 2 1 8 7 6 5
Copy Controller /
ARS-2032
CH 5 / CD Writer
CH 6 / CD Writer
CH 7 / CD Writer
CH 8 / CD Writer

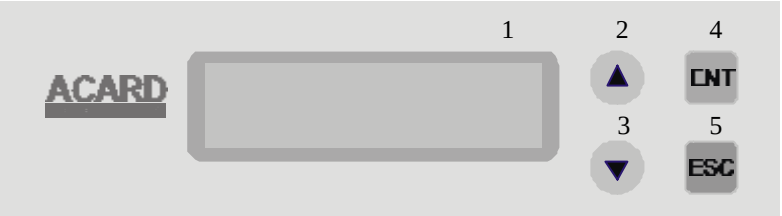
The following diagram and pictures indicate the installation of ARS-2032 copy controller with an HDD, a CD-ROM and 7 CD writers.



Chapter 3 Basic Instructions

3.1 Buttons and LCD

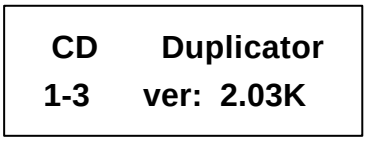
There are four buttons and an LCD on the panel of the copy smart plus. They are described as follows.



1. It shows all functions and messages.
2. It is used to scroll up through functions or menus.
3. It is used to scroll down through functions or menus.
4. It is used to execute a selected function.
5. It is used to cancel a selected function.

After you power on, and the copy smart plus detects the installed hardware like CD-ROM, CD writers, it will execute a self-test for seconds. When the self-test finishes, LCD will show the messages as follows.

1.



2.

Figure 1 represents ARS-2030L. The firmware version for 1-to-7 ARS-2032 is 2.03S. For the convenience of exposition we take ARS-2030L as an example.

3.

4.

There are 12 functions for you to use. Function 1 is Copy. You can press ▼ to select other functions.

3.2 About HDD Installation

HDD installation is not necessary, but with a hard disk you can use and enjoy the function of Image. In other words, you have one more choice to reproduce a CD from an image file stored in the hard disk. In subsection 3.2.1 and 3.2.2 we are going to describe the differences of installing a 3.5" hard disk and not installing.

3.2.1 With an HDD

If you install a 3.5" hard disk to your copy smart plus, the operation procedures will be as follows.

- Once your copy smart plus detects the hard disk, it will ask if you want to format or not. A 10GB hard disk can be divided into 10 partitions. Each partition has 1GB.
- Use function 8 Select Source to set the hard disk as the source.
- In function 9 Image select a partition to store the data.
- If there is no data in a selected partition, place a source CD into CD-ROM and use function 9-01 Load to transmit data from CD into the selected partition by pressing **ENT**. Different data can be stored in different partitions.
- Switch to function 1 Copy by pressing ▲. Place blank CD disks into the CD writers, and press **ENT** to start copying.

- When copying comes to an end, the passed CDs will eject automatically. The default is eject automatically, but you can change it.
- The failed CDs will remain in the writers. The default is keeping failed CDs in the writers, but you can change it. You need to press the buttons on the writers to take the failed CDs.
- During operation do not press any button on your copy smart plus, because interruption will harm the device, and CDs will be damaged.

3.2.2 Without an HDD

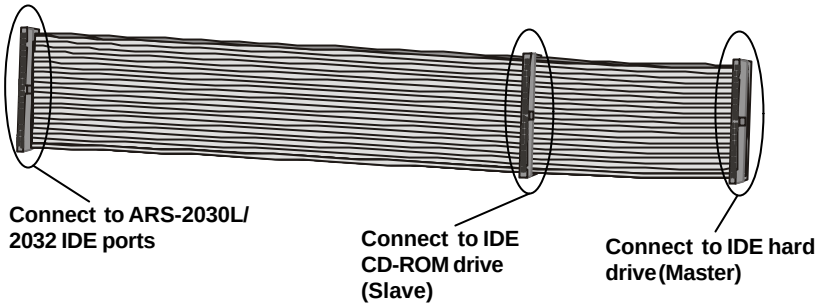
If you don't install a 3.5" hard disk to your copy smart plus, the operation procedures will be as follows.

- Place a source CD into CD-ROM.
- Switch to function 1 Copy by pressing ▲. Place blank CD disks into the CD writers, and press **ENT** to start copying.
- When copying comes to an end, the passed CDs will eject automatically. The default is eject automatically, but you can change it.
- The failed CDs will remain in the writers. The default is keeping failed CDs in the writers, but you can change it. You need to press the "eject" buttons on the writers to take the failed CDs.

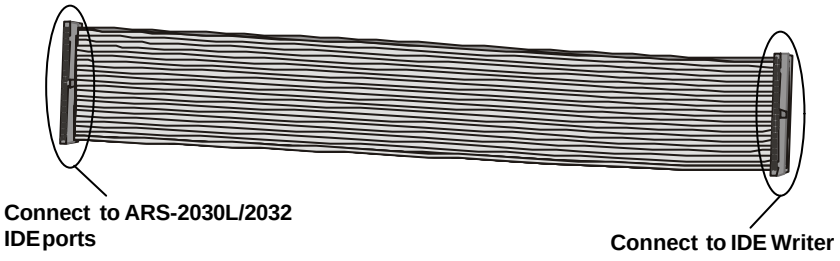
A figure of ATA-66 cable layout is on the next page.

Please identify two different cables before hardware installation.

1. Three connectors for CD-ROM or optional HDD

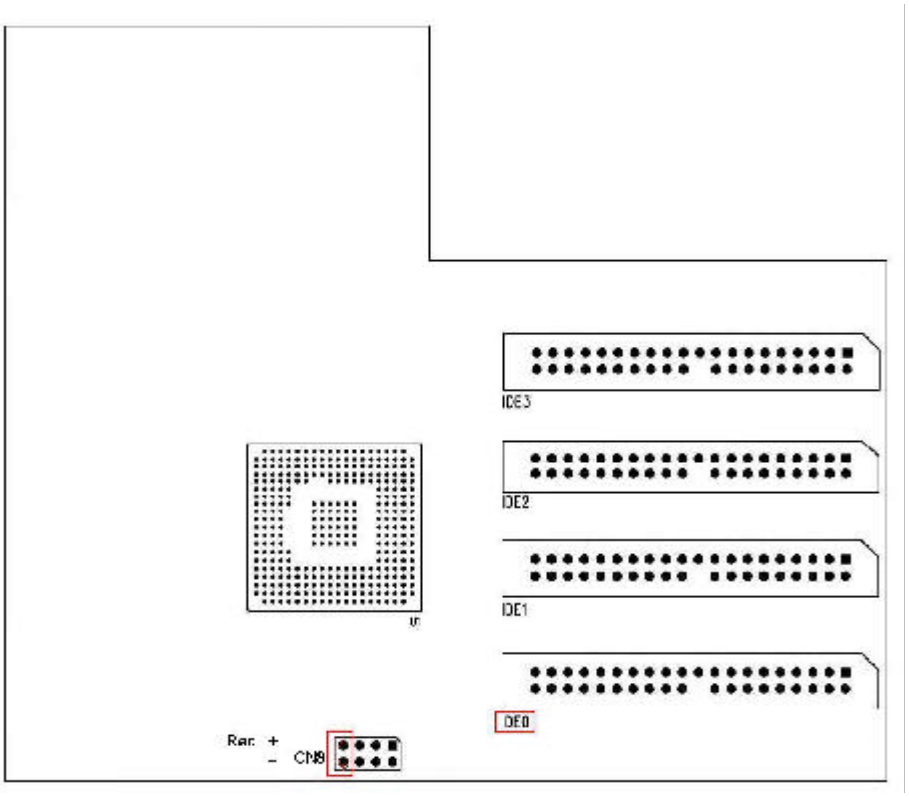


2. Two connectors for CD writers

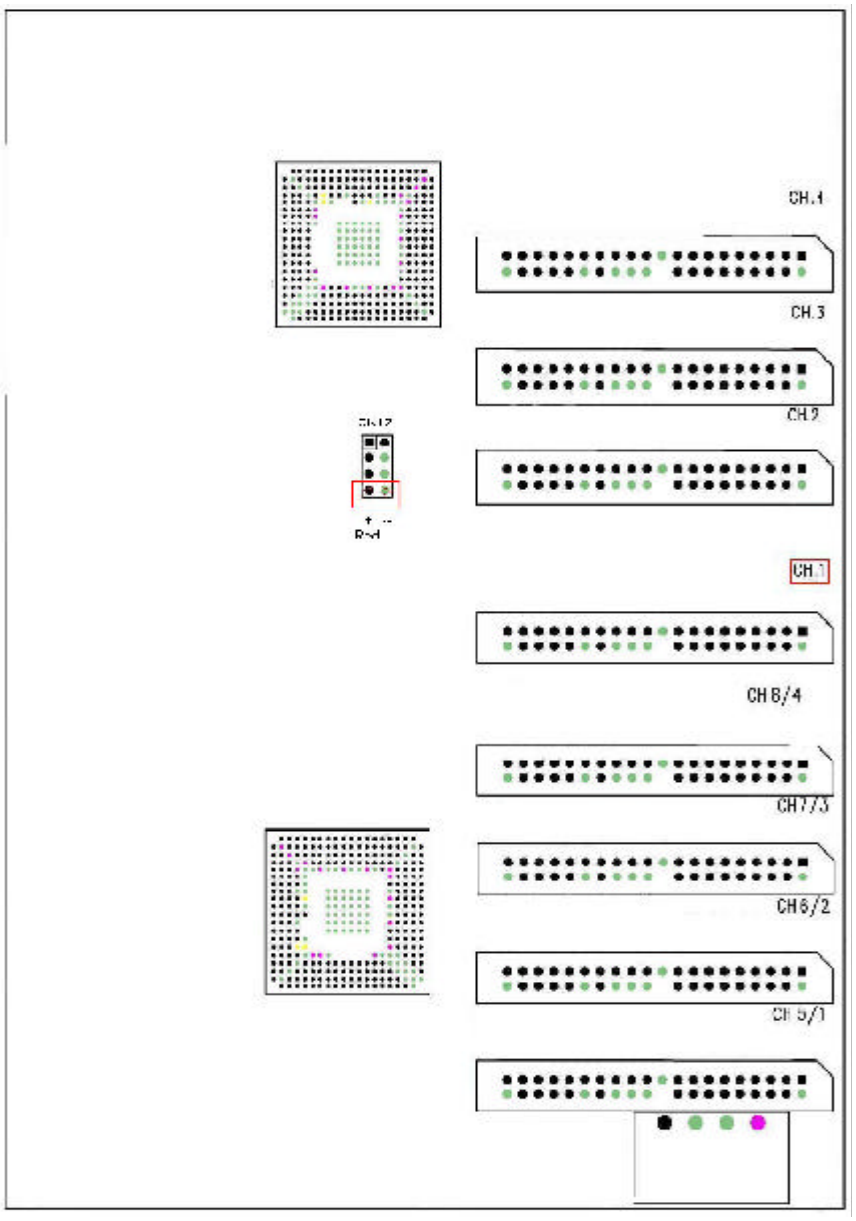


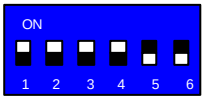
3.3 Board Layout

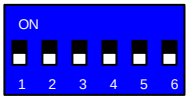
The board layout of ARS-2030L is shown as follows.



The board layout of ARS-2032 is shown as follows.



Host Mode 

Target Mode 

Chapter 4 Functions

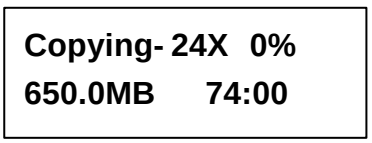
There are 12 functions: Copy, Test, Test & Copy, Verify, Compare, Prescan, Disc Info, Select Source, Image, Edit Track, Setup and Advanced Setup. During operation if you do not understand an LCD message, you can refer to Appendix 2.

4.1 Copy

Function 1 Copy is to copy data from a source CD directly into blank CD disks. Before copying be sure that the source CD is placed into CD-ROM, or there are data in a certain HDD partition if you have installed a hard disk. If you are not sure of real copying, you can use Function 2 Test to simulate first.

Select function 1. Put a source CD into CD-ROM and blank CD disks into the CD writers. CD rewriteable disks containing old data are usable, too.

After the CD-ROM and CD writers detect CDs, press **ENT** to start copying. LCD will show the copying information as follows.



When copying is in progress, MB and time will decrease whereas the percentage of completion will increase.

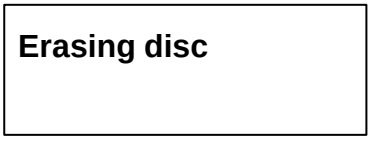
When copying comes to an end, LCD will show the result as follows. The passed CDs will eject automatically.

4.2 Test

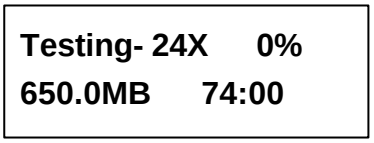
Function 2 Test is to simulate the copying progress. When simulation finishes, there will be no data really written into CD disks.

Select function 2. Put a source CD into CD-ROM and blank CD disks into the CD writers.

Press **ENT** to start simulation. If you use CD rewriteable disks that contain data, the old data will be quickly erased before simulation as shown below.



LCD will show the testing information as follows.



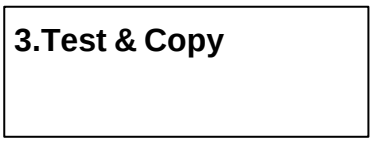
When the test comes to an end, LCD will show the result as follows.

Stopping the test halfway does not affect the CD disks, but if the CD-rewriteable disks contain important data, they may be destroyed.

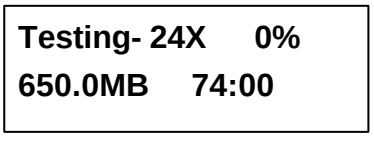
4.3 Test & Copy

Function 3 Test & Copy is to test first and then copy actually.

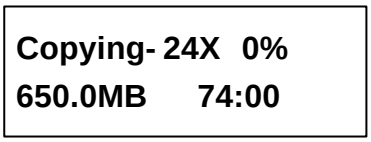
Select function 3. Put a source CD into CD-ROM and blank CD disks into the CD writers.



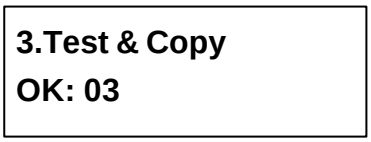
Press **ENT** to start simulation. LCD will show the testing information as follows.



When the test finishes, actual copying will begin as shown below.



When the whole process finishes, LCD will show the result as follows.

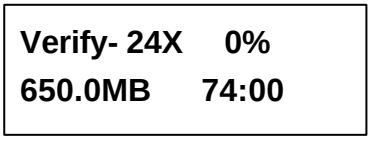


4.4 Verify

Function 4 Verify is to examine if the target CDs can be read correctly after copying.

Select function 4.

Press **ENT** to verify. LCD will show the verification information as follows.

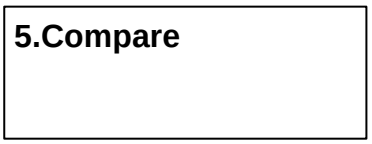


When verification comes to an end, LCD will show the result as follows.

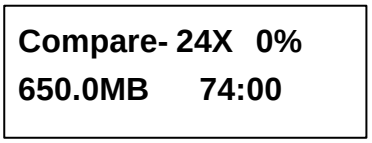
4.5 Compare

Function 5 Compare is to make a comparison between the source CD and the target CDs after copying.

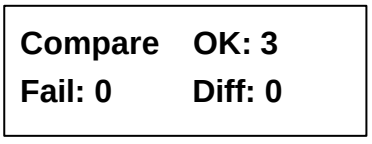
Select function 5. Put the source CD into CD-ROM and the target CDs into CD writers.



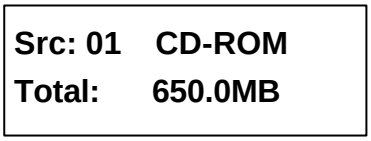
Press **ENT** to compare.LCD will show the comparison information as follows.



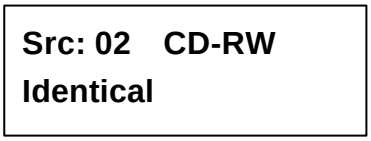
When comparison comes to an end, LCD will show the result as follows.



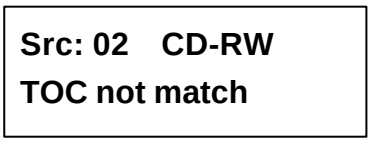
Press **ENT** to see the details of source 1 as shown below.



Press **ENT** to see the details of source 2. If the comparison is identical, LCD will show the message as follows.



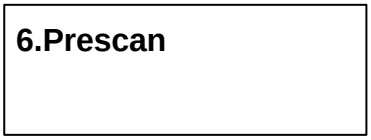
If comparison fails, LCD will show the failure. By pressing **ENT** twice, LCD will show that the contents of source 1 and those of source 2 do not match as follows.



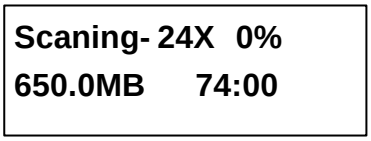
4.6 Prescan

Function 6 Prescan is to scan if the source CD can be read correctly, and by the way to test the reading speed.

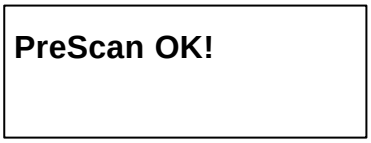
Select function 6. Put the source CD into CD-ROM.



Press **ENT** to prescan. LCD will show the scanning information as follows.



When scanning finishes, and the source CD can be read correctly, LCD will show the result as follows.

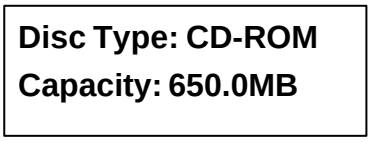


4.7 Disc Info

Function 7 Disc Info is to show the basic information of source CD.

Select function 7. Put the source CD into CD-ROM.

Press **ENT**, and LCD will show the CD information as follows.



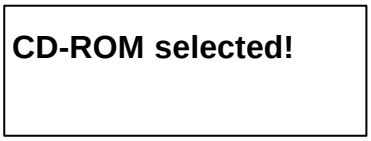
4.8 Select Source

Function 8 Select Source is to let you select the data on CD-ROM, CD writers or HDD as the source from which you intend to copy.

Select function 8.

Press **ENT**, and then press ▲ ▼ to select the source as shown below.

After selecting the source such as CD-ROM, you can press **ENT**, and LCD will show the message as follows.



Suppose you select HDD as the source and try to copy from one of its partitions, but the partition contains no data, an error message will appear on LCD. At this moment, you can switch to another partition that contains data, or use function 9 Image to load the data into the chosen partition first.

4.9 Image

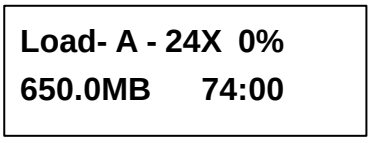
Function 9 Image is valid only when you have installed a hard disk. This function includes 6 parts. They are Load, Delete Image, Image Info, Compare Image, Select Partition and Select Src Drive. The loaded data is called an image file.

Select function 9.

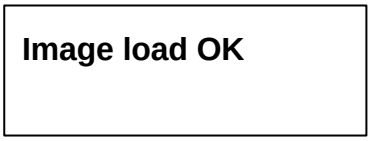
4.9.1 Load

On the above figure press **ENT**, and you will enter the following figure. Here the function Load is to let you load data from CD-ROM or any CD writer into the current partition of the hard disk. P:A means partition A.

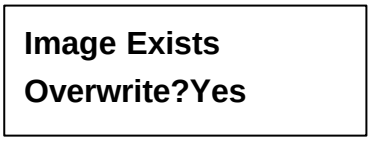
Press **ENT** to load. LCD will show the loading information as follows.



After the image file is successfully loaded, LCD will show the result as follows.



If there is an image file existing in the current partition, the system will ask you whether to overwrite it or not. Please use ▲ ▼ to confirm Yes or No.

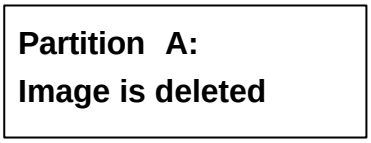


4.9.2 Delete Image

If you want to empty an image file stored in a particular partition, you can use the function Delete Image to do so. First, select the function by pressing ▼.

The system will ask if you are sure to delete. Use ▲ ▼ to confirm Yes or No.

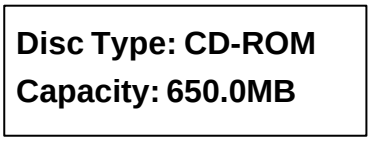
After the image file is deleted, LCD will show the result as follows.



4.9.3 Image Info

This function is to show the basic information of an image file stored in a particular partition. First, select the function by pressing ▼.

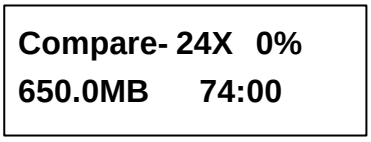
Press **ENT**, and LCD will show the information of the image file as follows.



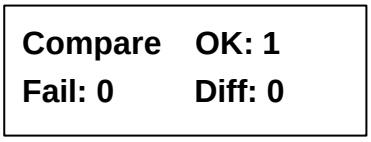
4.9.4 Compare Image

This function is to compare the contents of the source CD and those of the image file in the partition. First, select the function by pressing ▼.

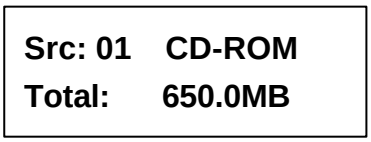
Press **ENT**, and LCD will show the comparison information as follows.



When comparison comes to an end, LCD will show the result as follows.

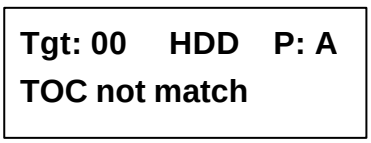


Press **ENT** to see the details of source 1 as shown below.



Press **ENT** to see the details of source 2. If the comparison is identical, LCD will show the message as follows.

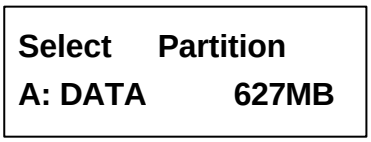
If comparison fails, LCD will show the failure. By pressing **ENT** twice, LCD will show that the contents of source 1 and those of source 0 do not match as follows.



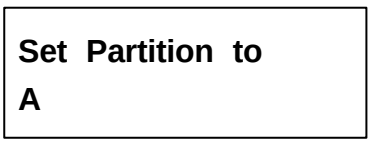
4.9.5 Select Image

This function is to select a partition in the hard disk. First, select the function by pressing ▼.

After installing a hard disk, your copy smart plus will format it automatically. Each partition occupies 1GB. The number of partitions is dependent on the hard disk's capacity. The partitions are alphabetically arranged. Select a partition by pressing ▲▼, and LCD will show the message as follows.



After the partition is selected, LCD will show the result as follows.

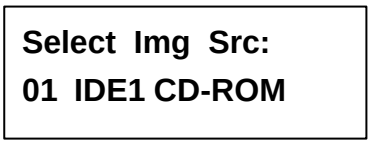


4.9.6 Select Src Drive

This function is to select CD-ROM or any CD writer as the source from which you can load data into a particular partition as an image file.

First, select the function by pressing ▼.

Then, use ▲ ▼ to select CD-ROM or any CD writer as the source.



After selecting the source such as CD-ROM, you can press **ENT**, and LCD will show the message as follows.

4.10 Edit Track

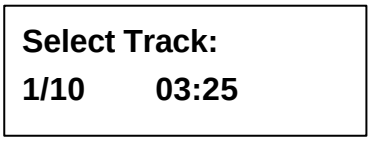
Function 10 Edit Track is designed for editing a collection of favorite songs from CDs. In other words, it can collect different tracks (songs) on a number of CDs and merge them into a single CD. This function includes 4 parts. They are CD to CD, CD to HDD, Play Audio Track and Close Session.

Select function 10.

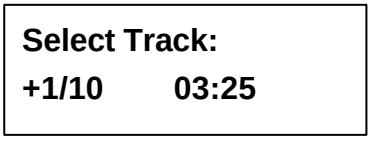
4.10.1 CD to CD

On the above figure press **ENT**, and you will enter the following figure.Here the function CD to CD is to let you select one or more tracks from CD-ROM, and then copy into blank CD-R/RWs.

On the above figure press **ENT**, and you will enter the following figure. Here 1/10 means the number one of the 10 tracks, and 03:25 means the playing time.

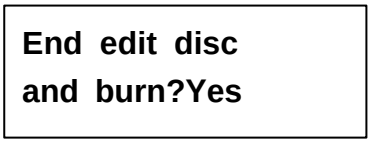


You can press ▼ to see the second track and so on. Suppose we decide to select the first track, then press **ENT**. A "+" will appear beside 1/10 as shown below. But pressing **ENT** again may cancel the selection.

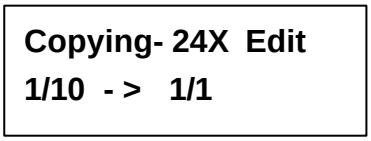


After selecting, please use ▲ to move to the "End" menu as shown below.

Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.

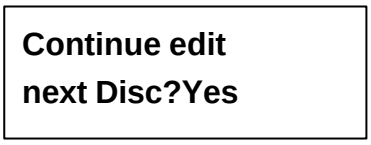


LCD will show the copying information as follows.

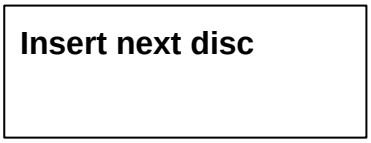


On the above figure 1/1 means the first track of all tracks we have selected, and here we have just selected one track. When copying comes to an end, LCD will show the message as follows.

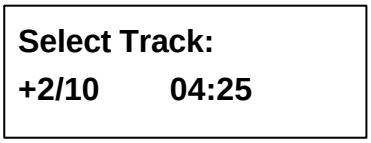
The system will ask if you want to keep editing. Please use ▲▼ to confirm Yes or No as shown below.



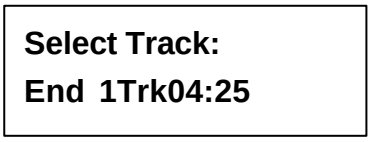
If you want to keep editing, the current source CD will eject auctomatically, and the system will ask you to insert another new CD as shown below.



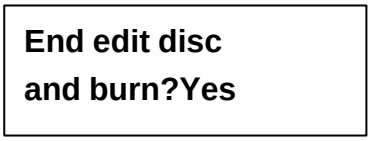
After inserting the new CD, press **ENT** to edit as before. Suppose we decide to select the second track, then press **ENT**. A "+" will appear beside 2/10 as shown below.



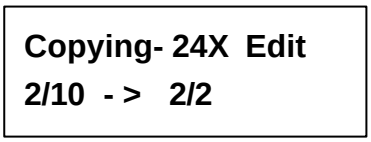
After selecting, please use ▲ to move to the "End" menu as shown below.



Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.

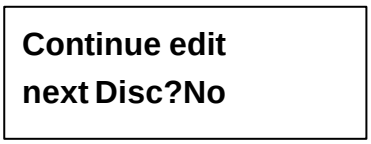


LCD will show the copying information as follows.

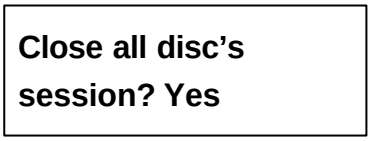


On the above figure 2/2 means the second track of all tracks we have selected, and so far we have selected two tracks from two different CDs. When copying comes to an end, LCD will show the message as follows.

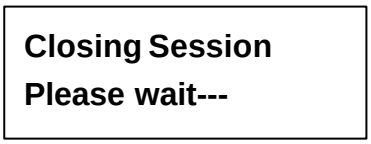
The system will ask if you want to keep editing. Suppose we don't like to continue, then press ▼ to confirm No.



On the above figure Press **ENT**. The system will ask if you want to close all CDs' sessions. Please use ▲ ▼ to confirm Yes or No as shown below.



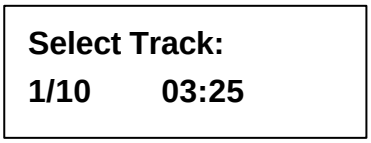
After deciding to close, LCD will show the message as follows.



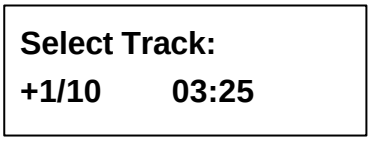
4.10.2 CD to HDD

After closing sessions, press **ESC** and ▼ to enter the following figure. Here the function CD to HDD is to let you select one or more tracks from CD-ROM, and then copy into a certain partition of HDD.

On the above figure press **ENT**, and you will enter the following figure. Here 1/10 means the number one of the 10 tracks, and 03:25 means the playing time.

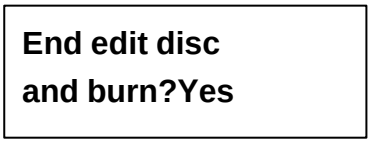


Suppose we decide to select the first track, then press **ENT**. A "+" will appear beside 1/10 as shown below. But pressing **ENT** again may cancel the selection.

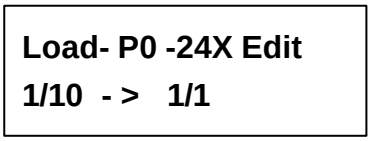


After selecting, please use ▲ to move to the "End" menu as shown below.

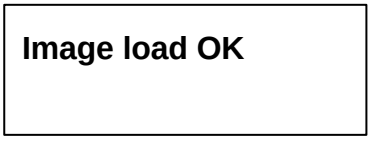
Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.



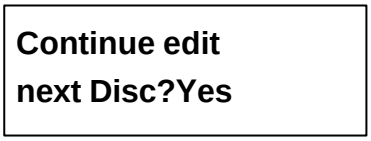
Then, the track as an image file will be loaded into HDD. LCD will show the loading information as follows.



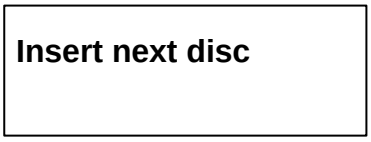
When loading comes to an end, LCD will show the message as follows.



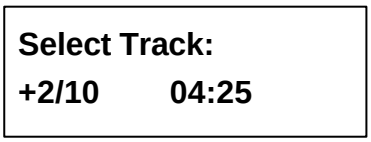
The system will ask if you want to keep editing. Please use ▲▼ to confirm Yes or No as shown below.



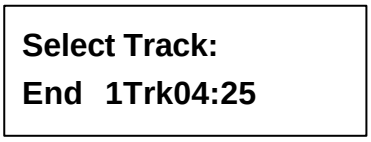
If you want to keep editing, the current source CD will eject auctomatically, and the system will ask you to insert another new CD as shown below.



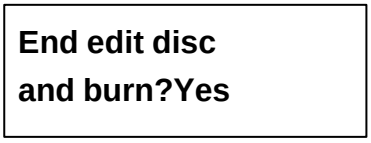
After inserting the new CD, press **ENT** to edit as before. Suppose we select the second track, then press **ENT**. A "+" will appear beside 2/10 as shown below.



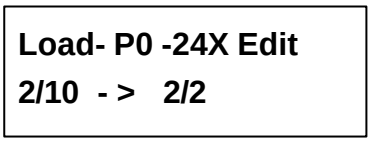
After selecting, please use ▲ to move to the "End" menu as shown below.



Press **ENT** to finish the CD editing, and use ▲▼ to confirm Yes or No.

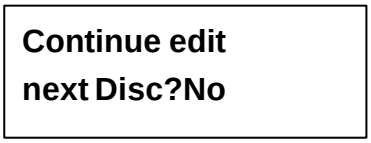


Then, the track as an image file will be loaded into HDD. LCD will show the loading information as follows.

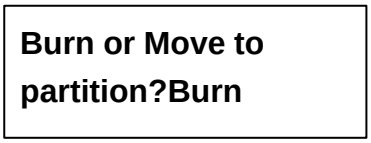


When loading comes to an end, LCD will show the message as follows.

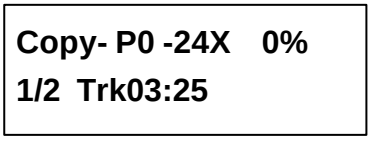
The system will ask if you want to keep editing. This time please use ▼ to confirm No as shown below.



Then, the system will ask if you want to burn from HDD into CD-R/RW or move into a partition. Please use ▲ to confirm Burn as shown below.

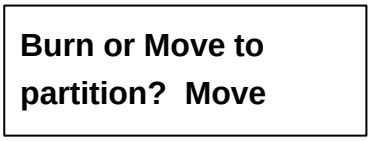


After pressing ▲ , LCD will show the copying information as follows.



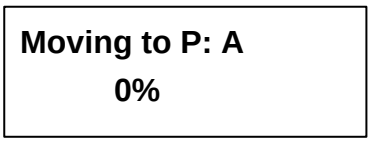
When burning finishes, LCD will show the result as follows.

On the above figure press **ESC** to enter the following figure. Now press ▼ to move the data from HDD template into a certain partition.

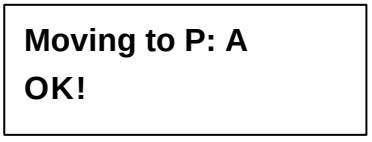


After pressing ▼, you need to select a partition into which the data will be moved. Suppose we select A as shown below.

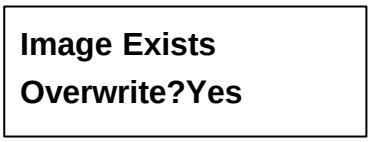
After pressing **ENT**, LCD will show the moving information as follows.



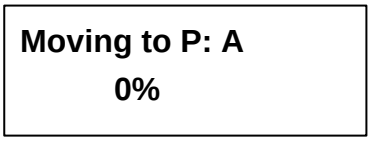
When moving finishes, LCD will show the result as follows.



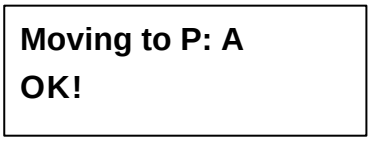
If the chosen partition has contained image data, the system will ask to overwrite or keep the data. Here please use ▲ to overwrite.



After pressing ▲ , LCD will show the moving information as follows.



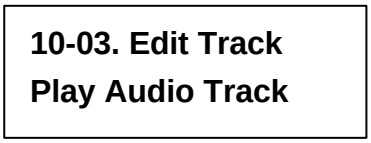
When moving finishes, LCD will show the result as follows.



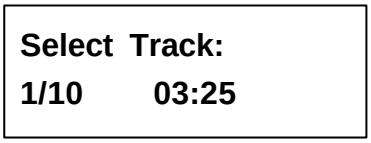
4.10.3 Play Audio Track

This function is to make the copy smart plus act as a music player. You can plug an AV terminal in the audio port on the back of the device, and enjoy the music.

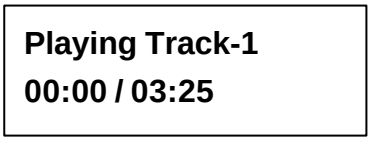
On the above figure press **ESC** and ▼ to select the function.



Use ▲ ▼ to select the track you want to play.



After selecting and pressing **ENT**, LCD will show the playing information below.

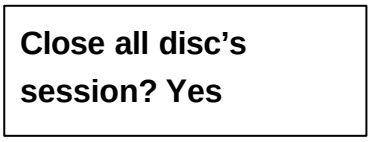


4.10.4 Close Session

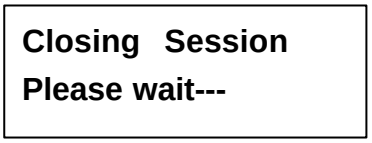
This function is to close CDs and let no data written into. After closing, you can put the CDs on any normal player and listen.

On the above figure press **ESC** and ▼ to select the function.

After pressing **ENT**, the system will ask if you are sure to close.



After pressing **ENT**, LCD will show the message as follows.



When closing finishes, LCD will show the result as follows.

4.11 Setup

Function 11 Setup lets you change the default settings. Once you change a setting, remember to press **ENT** to save it. However, it is suggested to use the defaults for the optimal operation. This function includes 16 parts. They are Language, Burn Speed, Read Speed, Auto Start Drive, Startup Menu, Auto Verify, Auto Compare, Auto Prescan, Eject Disc, Burn On The Fly, Burn Mode, Button Sound, Device Info, System Info, Quick Erase and Full Erase.

Select function 11.

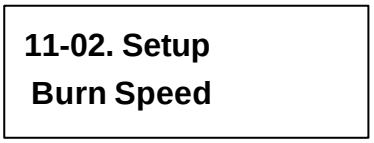
4.11.1 Language

On the above figure press **ENT**, and you will enter the following figure. The function Language lets you select a language in which messages can be shown on LCD.

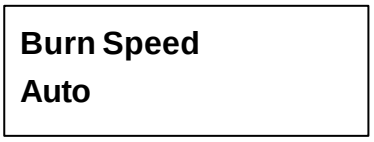
Press **ENT** to enter the following figure. Here LCD only supports English. Japanese, Traditional Chinese and Simplified Chinese are optional.

4.11.2 Burn Speed

On the above figure press **ESC** and ▼ to enter the following figure. This function lets you control the burning speed of CD writers.

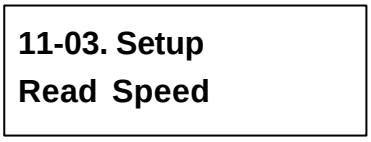


Press **ENT** to enter the following figure. The default is auto.

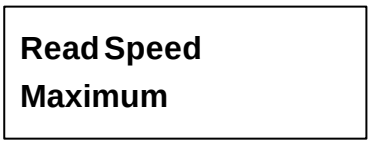


4.11.3 Read Speed

On the above figure press **ESC** and ▼ to enter the following figure. The function Read Speed lets you control the reading speed of target CDs.



Press **ENT** to enter the following figure. The default is maximum, but there are still other choices: 32X, 16X and 8X.



4.11.4 Auto Start Drive

On the above figure press **ESC** and ▼ to enter the following figure. Auto Start Drive is to copy or test automatically once you put blank CDs into the writers.

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select 1 (one blank CD).

4.11.5 Startup Menu

On the above figure press **ESC** and ▼ to enter the following figure. Startup Menu lets you select any one of the functions except Adv Setup as the first item appearing on the menu whenever you turn on the copy smart plus.

Press **ENT** to enter the following figure. The default is Copy. Of course you can select any other function as the first item, but remember to press **ENT**.

4.11.6 Auto Verify

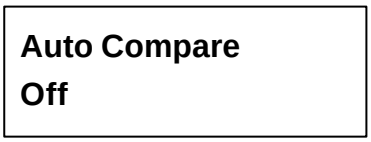
On the above figure press **ESC** and ▼ to enter the following figure. Auto Verify is to verify automatically if the target CDs can be read after copying.

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

4.11.7 Auto Compare

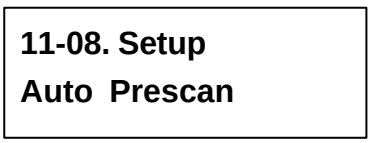
On the above figure press **ESC** and ▼ to enter the following figure. Auto Compare is to compare automatically the source CD and the target CDs after copying.

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

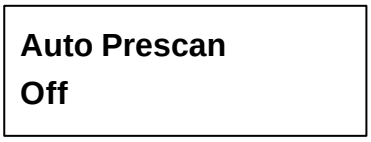


4.11.8 Auto Prescan

On the above figure press **ESC** and ▼ to enter the following figure. Auto Prescan is to scan automatically if the source CD can be read correctly, and by the way to test the reading speed.



Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.



4.11.9 Eject Disc

On the above figure press **ESC** and ▼ to enter the following figure. Eject Disc provides three choices. They are Eject Good Only, Eject All Disc, and Do Not Eject. Eject Good Only means that the CDs will eject automatically only when they are copied successfully. Eject All Disc means that the CDs will eject automatically whether they are copied successfully or not. Do Not Eject means that you need to eject the CDs manually when copying finishes.

Press **ENT** to enter the following figure. The default is Eject Good Only. Press ▼ to select Eject All Disc or Do Not Eject.

4.11.10 Burn On The Fly

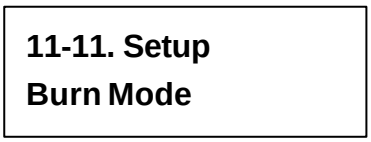
On the above figure press **ESC** and ▼ to enter the following figure. Burn On The Fly lets you control the copying methods. When the setting is On, the data will be copied directly from the source CD to the target CDs. When the setting is Off, the data will be loaded into a partition of HDD first, and hence copying will be done.

Press **ENT** to enter the following figure. The default is On. Press ▼ to select Off.

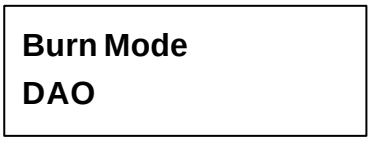
If your copy smart plus doesn't connect with a hard disk, LCD will show the message as follows.

4.11.11 Burn Mode

On the above figure press **ESC** to return to Function 10, and then select part 11 Burn Mode as the following figure shows. Burn Mode lets you control the burning modes. There are two modes: DAO (Disc At Once) and TAO (Track At Once). If the CD writer doesn't support the mode you have selected, the copy smart plus will automatically switch to another mode.



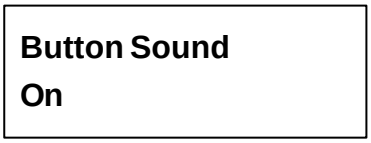
Press **ENT** to enter the next figure. The default is DAO. Press ▼ to select TAO.



4.11.12 Button Sound

On the above figure press **ESC** and ▼ to enter the following figure. Button Sound lets you control the sound of a button when you press it.

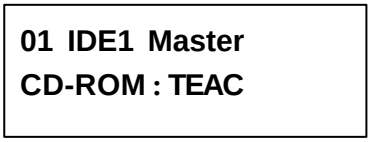
Press **ENT** to enter the next figure. The default is On. Press ▼ to select Off.



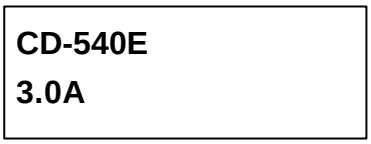
4.11.13 Device Info

On the above figure press **ESC** and ▼ to enter the following figure. Device Info shows the information of the CD-ROM and any CD writer you have installed.

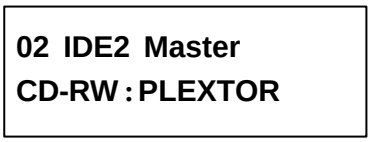
Press **ENT** to enter the next figure.



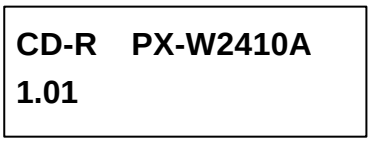
Press **ENT** to enter the next figure.



Press ▼ twice to enter the next figure.



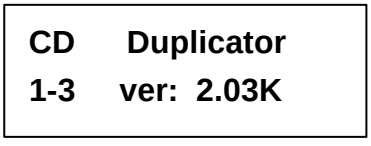
Press **ENT** to enter the next figure.



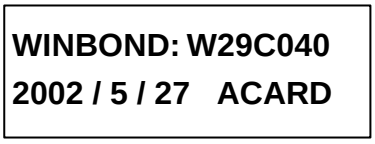
4.11.14 System Info

On the above figure press **ESC** and ▼ to enter the following figure. System Info shows the information of the system.

Press **ENT** to enter the next figure. Ver.2.03S is for 1-to-7 model.

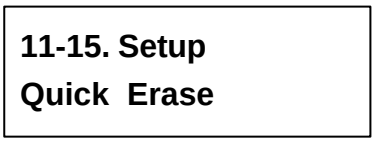


Press **ENT** to enter the next figure.

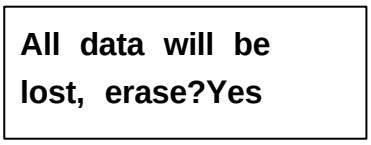


4.11.15 Quick Erase

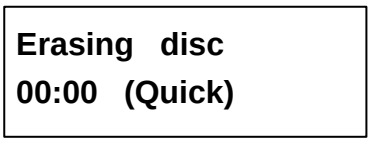
On the above figure press **ESC** and ▼ to enter the following figure. Quick Erase is to erase the data on the CD rewriteable disks quickly.



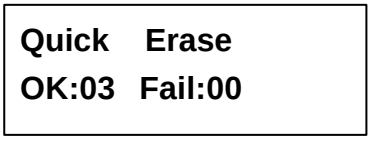
Press **ENT** to enter the next figure. Use ▲▼ to confirm Yes or No.



After confirming Yes and pressing **ENT**, LCD will show the message as follows.

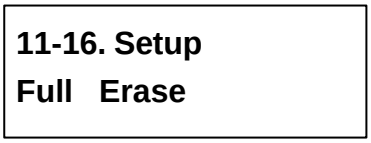


When erasing finishes, LCD will show the result as follows.

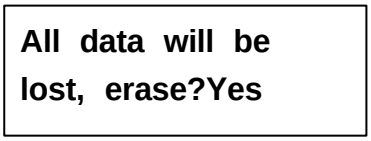


4.11.16 Full Erase

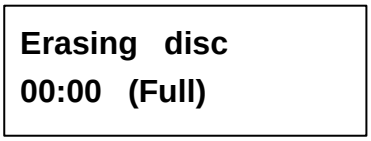
On the above figure press **ESC** and ▼ to enter the following figure. Full Erase is to erase the data on the CD rewriteable disks completely. Compared with Quick Erase, Full Erase takes longer time to do the job.



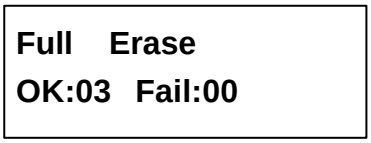
Press **ENT** to enter the next figure. Use ▲▼ to confirm Yes or No.



After confirming Yes and pressing **ENT**, LCD will show the message as follows.



When erasing finishes, LCD will show the result as follows.



4.12 Adv Setup

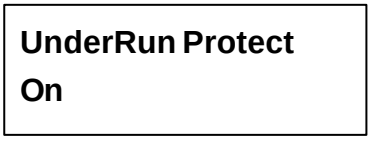
Function 12 Adv Setup lets you change the system configuration. This function includes 13 parts. They are UnderRun Protect, Overburn, Read Error Skip, Format HDD, Verify HDD, Burn-in, Update Firmware, Compare Firmware, H/W Diagnostic, Load Default, CD+G, ISRC & MCN and Switch Link-Host.

On the above figure press **ESC** to return to Function 11. Then, press **ESC** for 2 seconds to enter Function 12-01 as the following figure shows.

4.12.1 UnderRun Protect

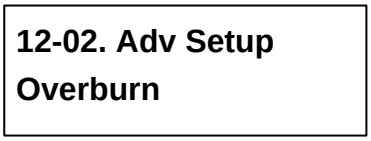
On the above figure if you press **ESC**, you can enter Function 12 as the following figure shows.

UnderRun Protect lets you control On and Off of Buffer Under Run Protection such as Burn Proof, SafeBurn, JustLink, Seamless Link, etc. Press **ENT** to enter the following figure. The default is On. Press ▼ to select Off.

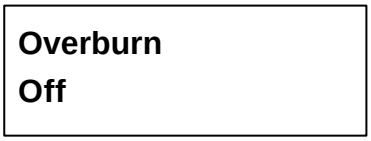


4.12.2 Overburn

On the above figure press **ESC** and ▼ to enter the following figure. Overburn lets you decide whether to copy beyond the limit of the CD or not.

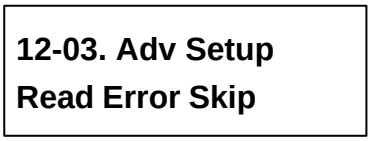


Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

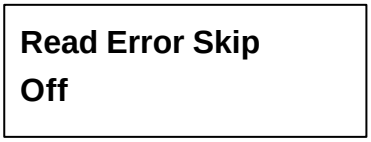


4.12.3 Read Error Skip

On the above figure press **ESC** and ▼ to enter the following figure.Read Error Skip is to neglect any error that occurs during copying. Under normal circumstances, when an error occurs during copying, a message will appear on LCD. Yet, you can use Read Error Skip to copy some defective CDs.



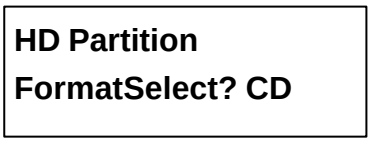
Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.



4.12.4 Format HDD

On the above figure press **ESC** and ▼ to enter the following figure. Format HDD is to partition the hard disk. But before formatting, all data on the hard disk will be deleted.

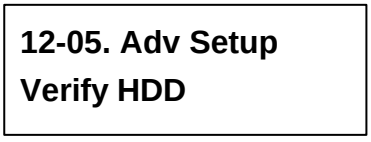
Press **ENT** to get the next figure. In CD a partition occupies 1GB.



If your copy smart plus doesn't connect with a hard disk, LCD will show the message as follows.

4.12.5 Verify HDD

On the above figure press **ESC** to return to Function 12, and then select part 5 Verify HDD as the following figure shows. Verify HDD is to verify if the hard disk or any of its partitions can work well.

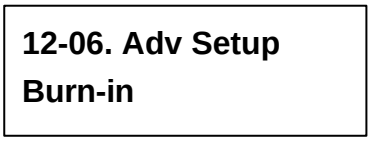


Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Disk or Parti.

Press **ENT** to verify. After verification LCD will show the result as follows.

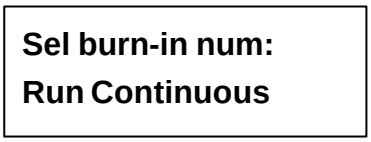
4.12.6 Burn-in

On the above figure press **ESC** and ▼ to enter the following figure. Burn-in is to simulate the copying progress many times. The time can be from 1 to 1000. After each cycle of simulation, the CDs on the CD writers will eject automatically and recede for the next bout of simulation.

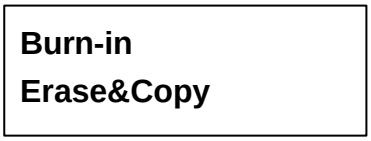


Press **ENT** to enter the next figure. Test is simply a simulation.

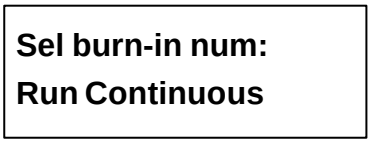
Press **ENT** and use ▲ ▼ to select the time of simulation such as 1, 2, 3...1000 or Run Continuous. The figure below shows Run Continuous.



Press **ESC**, **ENT**, ▼ to select Erase & Copy as the following figure shows. Erase & Copy is to erase and write repeatedly. It is only for CD rewriteable disks.



Press **ENT** and use ▲ ▼ to select the time of simulation such as 1, 2, 3...1000 or Run Continuous. The figure below shows Run Continuous.

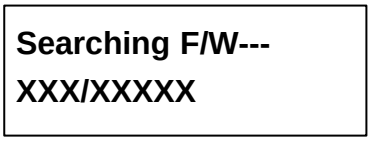


4.12.7 Update Firmware

On the above figure press **ESC** and ▼ to enter the following figure. Update Firmware is to update firmware to the latest version. But you should get the version first.

You can get the newest firmware version from ACARD by e-mail, or download it directly from the web site: **http://www.acard.com** Then, unzip the file "cdxxx.bin" and copy it into a blank CD.

After placing the CD on the CD-ROM , press **ENT**. The system will begin searching the new firmware and show the message on LCD as follows after it finds the new firmware. Then press **ENT** to update.

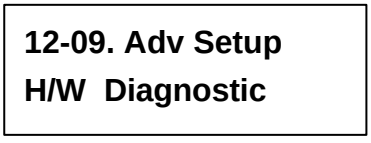


4.12.8 Compare Firmware

On the above figure press **ESC** and ▼ to enter the following figure.Compare Firmware is to compare the current firmware version and the newly downloaded version. It can prove if the downloaded version is the newest one.

4.12.9 H/W Diagnostic

Press **ESC** and ▼ to enter the next figure. H/W Diagnostic is to test the system.

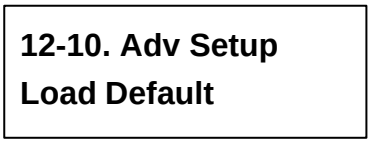


Press **ENT** to enter the next figure. Follow the instructions on LCD to do the button test. After that, the system will do the self-test of SDRAM, the hardware connection test and flash test. All test results will be shown on LCD. It is the easiest way to know if the system can work well.

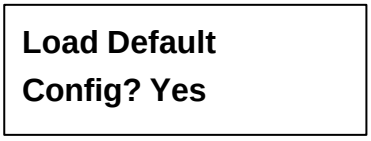
When the whole process finishes, LCD will show the message as follows.

4.12.10 Load Default

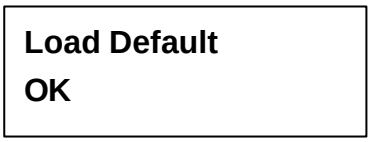
On the above figure press **ESC** and ▼ to enter the next figure. Load Default is to make all changed settings recover to defaults.



Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Yes or No.

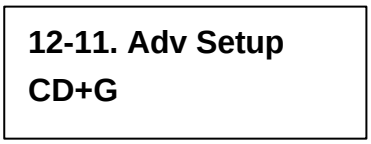


When default loading finishes, LCD will show the result as follows.



4.12.11 CD+G

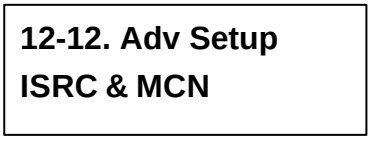
On the above figure press **ESC** and ▼ to enter the following figure. CD+G is a kind of special copying format. This function supports the special format.



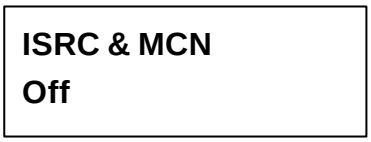
Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.

4.12.12 ISRC & MCN

On the above figure press **ESC** and ▼ to enter the following figure. ISRC and MCN are special copying formats. This function supports them.



Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.



4.12.13 Switch Link-Host (optional)

On the above figure press **ESC** and ▼ to enter the next figure. Switch Link-Host lets you switch to the link-host mode if your 2030 or 2032 has connected with a PC.

Press **ENT** to enter the next figure.

Chapter 5 Troubleshooting

5.1 About LCD

After you power up, if there is no display on the LCD, please check if the connection of power cord is firm and the environment of power outlet is normal.

5.2 About Error Messages

During Copy, Test, Compare and Verify, etc. if you press **ESC** to abort, an error message will appear on LCD. Abortion may cause the copy smart plus to hang up, therefore you have to power on again.

If reading fails, an error message will appear on LCD. Please get a new source CD to try again. If the copy smart plus hasn't detected any device after powering on, an error message will appear on LCD.

5.3 About CD-ROM/CD Writers

If a CD-ROM or any CD writer cannot read, please confirm the format of the source CD and examine if it is damaged.

Use any CD writer to read the source CD. If it works, the CD-ROM is probably defective or not compatible with the source CD. Use a fine CD writer as the data reader, and set the "Read Speed" at minimum.

5.4 About Buttons

If you press any one of the four buttons on the panel, but there is no response, it is perhaps that the button cannot function well. Please inspect the jumper setting.

5.5 About CD Writer Not Readable

After copying if the CD writer is not readable, please use Compare to examine, or get another CD-ROM to test.

5.6 About High Failure Rate

If the failure rate of copying is high, please do the following things to improve.

- Lower the speed of CD writer.
- Inspect if the blank disk's quality is bad.
- Update the firmware.
- Inspect the CD writer's maximum writing speed. If the speed is over 24X, copy the data to a hard disk first, and then transmit to CD.

5.7 About Firmware Update

If you cannot update the firmware, please inspect the BIOS program. Perhaps you have downloaded a wrong program, or let a zipped file be written into CD. The zipped file should be unzipped first.

Failure in firmware update may cause the copy smart plus to fail in booting. Under the circumstances, please return the control board to ACARD for repair.

5.8 About Function 12 and Cancellation

If you want to execute function 12 Advanced Setup, you can press **ESC** for 2 seconds. And during operation if you want to cancel a function like Copy, Test, Verify and so on, you can press **ESC** for 2 seconds, too.

Appendix A About AEC-4420P/PB

1 Overview

ACARD AEC-4420P and 4420PB are converters that turn internal IDE interfaces into external USB ones. They are chiefly used together with ACARD Copy Controller series. AEC-4420P can easily connect a CD\DVD writer or a hard drive that is connected to a standalone copy controller to PC through the USB interface, but AEC-4420PB can only connect a CD\DVD writer to PC. Then, you can control the CD\DVD writer or the hard drive through PC.

2 Features

- Turns IDE interface to USB one.
- Has a user-friendly interface, easy for installation and operation.
- Has a switch between standalone and link host.
- Compatible with ACARD Ha! DVD Burner.
- Can be a bridge between PC and a writer connected to a copy controller for external recording.
- Manages image files in the hard drive connected to a copy controller through ACARD Image Manager software.
- Optional for a copy controller to extend functions.
- Supports Windows 98/ME/NT/2000/XP/Server 2003.

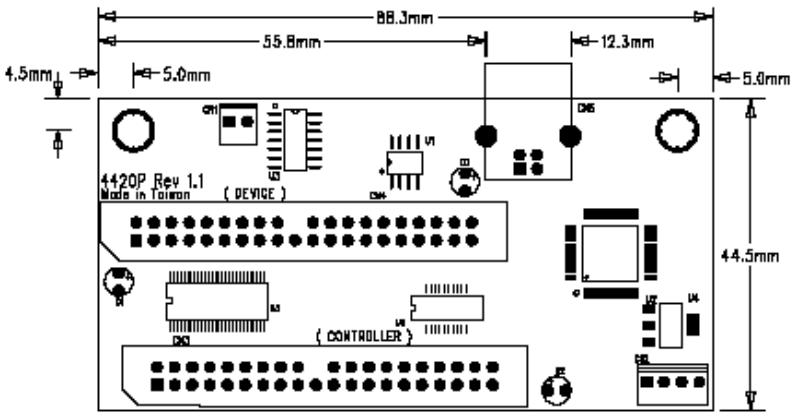
3 Specifications

- Has a USB controller and an IDE interface
- Supports Ultra DMA 33/66/100/133 IDE interface
- The data transfer rate is up to 480Mb/Sec (60MB/Sec) with USB 2.0
- Copy controller can be standalone or link host via the digital switch
- Signal control switch through external control signals

4 Layout

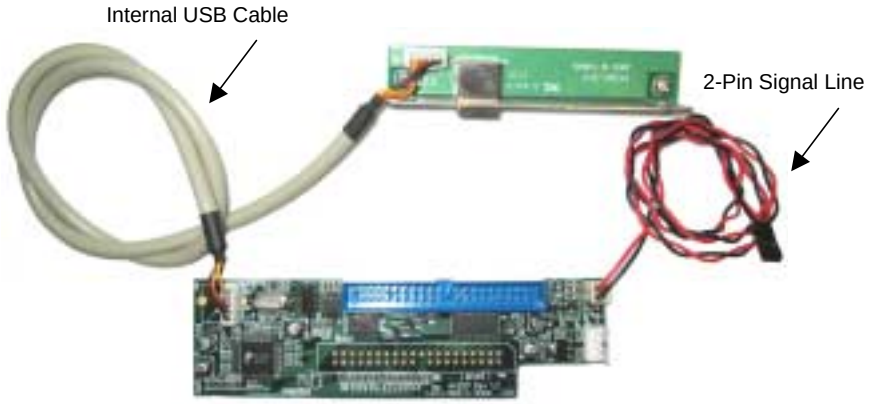
(a) AEC-4420P

The actual product of 4420P

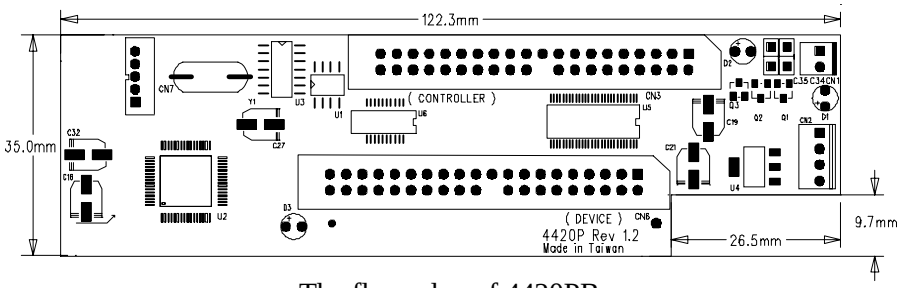


The floor plan of 4420P

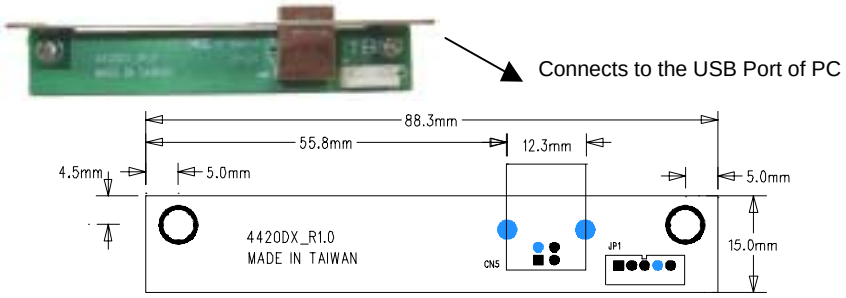
(b) AEC-4420PB



The actual product of 4420PB

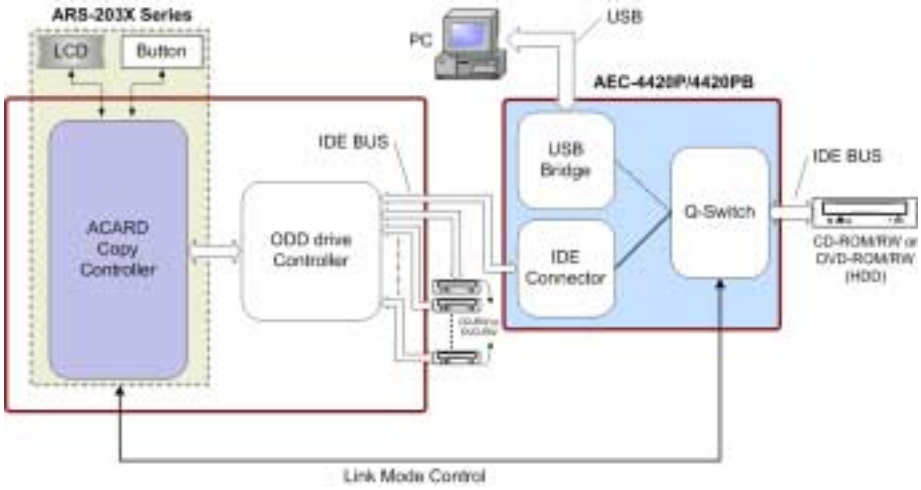


The floor plan of 4420PB



The USB extend board and floor plan of 4420DX

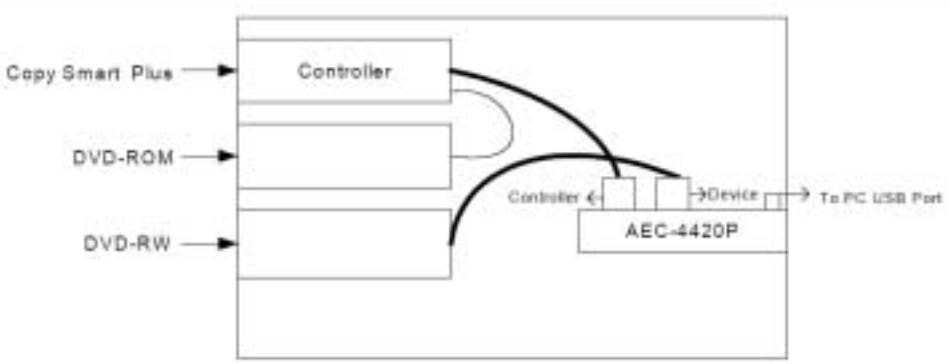
5 Function



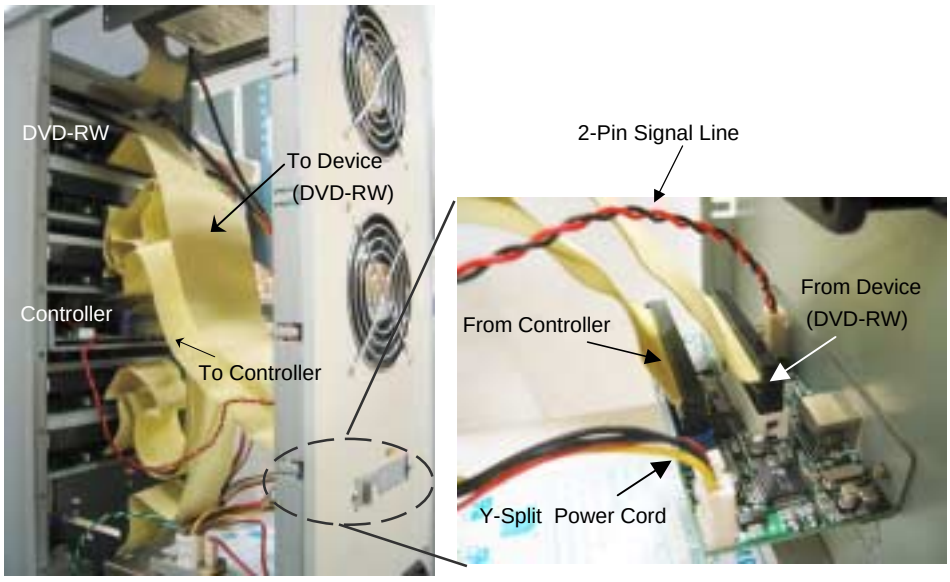
As indicated above, AEC-4420P/4420PB is connected to an ACARD copy controller via link mode control. Generally, when the copy controller is standalone, Q-Switch is connected to IDE connector. But when the copy controller is to be link host, Q-Switch will be switched to USB Bridge through link mode control, and thus 4420P/4420PB will be connected to PC. In link host mode, the device that PC controls is either a CD/DVD writer or a hard drive connected to the IDE bus on Q-Switch.

6 Connect 4420P to Writer

The picture below shows the connection of AEC-4420P with a writer. The connected writer can be used as an external writer when the copy controller is in link host mode. See page 17 and 18 for the connection of the 2-pin signal line.



The actual connection



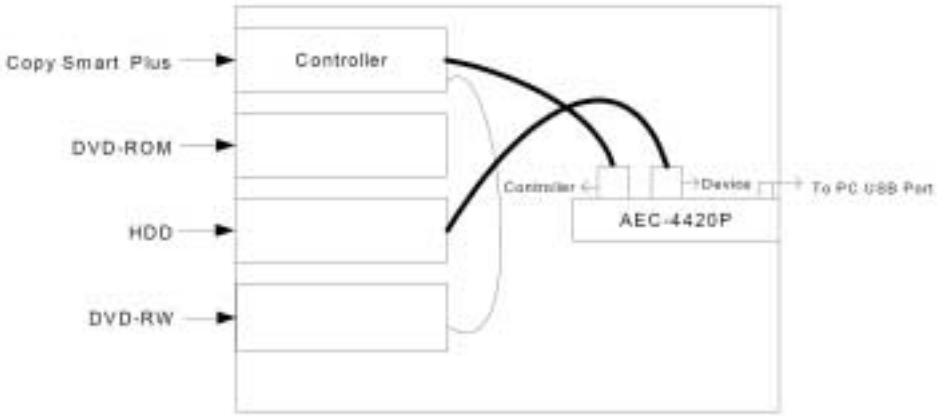
After connection and linking to the computer, you can press ESC on the copy controller's panel for 2 seconds, enter Function 12. Adv Setup, and select Switch USB Mode. Press ENT to see **"USB L.H Mode"** display on the LCD. You can also click "My Computer" to check if there is a new DVD writer appearing. Now you may use some recording software like ACARD Ha! DVD Burner to copy.

If you want to stop linking host, you can press ▲ on the copy controller's panel and see **"Back to SA-Mode? Yes"** display on the LCD. Press ENT to return to standalone mode.

Visit ACARD's Web site for the compatibility list of writers.

7 Connect 4420P to HDD

The picture below shows the connection of 4420P with a hard drive. It is similar to the connection of 4420P with a writer. When the copy controller is in link host mode, the data stored in PC can be transferred to the hard drive on the copy controller in the form of image files. After transfer, the copy controller can be switched back to standalone for data recording. See page 17 and 18 for the connection of the 2-pin signal line.



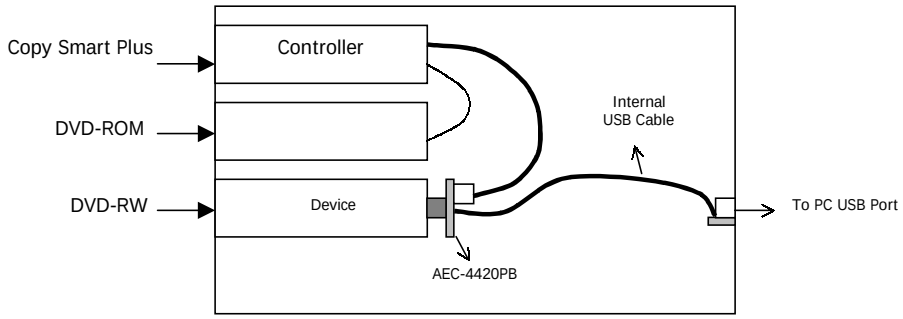
After connection and linking to the computer, once the copy controller detects the hard drive, it will ask if you want to format. Then, you can press ESC on the copy controller's panel for 2 seconds, enter Function 12. Adv Setup, and select Switch USB Mode. Press ENT to see **"USB L.H Mode"** display on the LCD. You can also click "My Computer" to check if there is a hard drive appearing.

Connection with a hard drive means transmitting those image files stored in the system's hard drive to the newly connected hard drive via the software Image Manager, and then copying the files to the target writer. See Part 10.

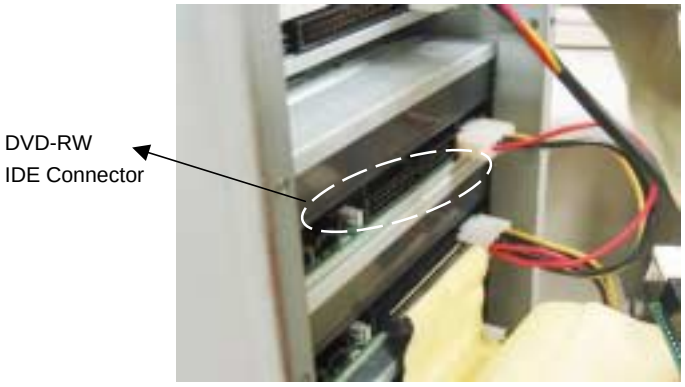
Visit ACARD's Web site for the compatibility list of hard drives.

8 Connect 4420PB to Writer

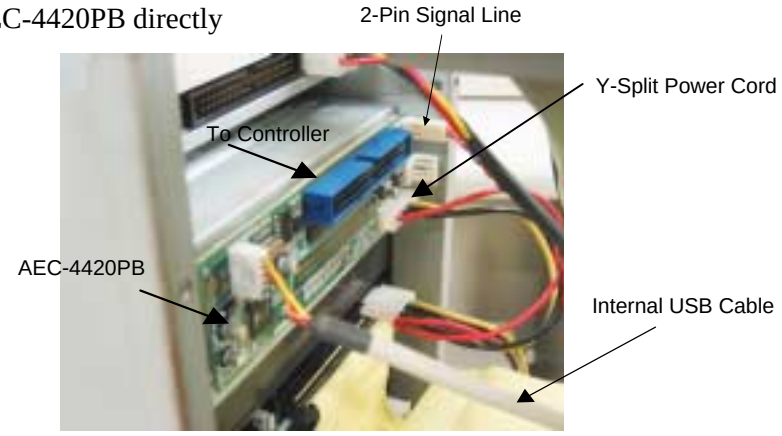
The picture below shows the connection of 4420PB with a writer. 4420PB cannot connect with a hard drive. Its function is the same as that of 4420P. See page 17 and 18 for the connection of the 2-pin signal line.



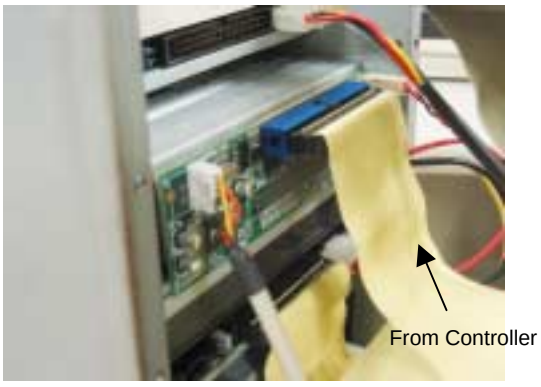
1. Find the IDE connector



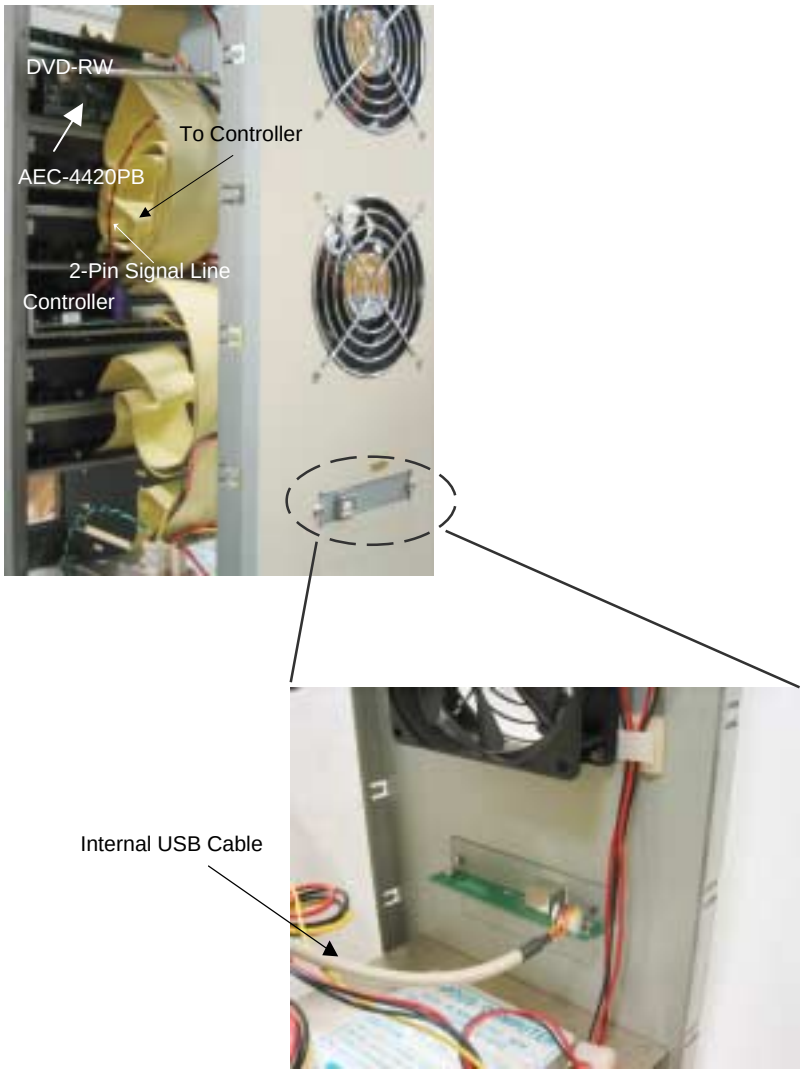
2. Inset AEC-4420PB directly



3. Connect the IDE cable that links with 4420PB



The actual connection



9 Connect to the Signal Line

See page 17 and 18 for the connection of the 2-pin signal line.

10 Image Manager

Install the software Image Manager that is in the support CD. Image Manager helps you manage those image files transmitted from PC to the hard drive connected with AEC-4420P.

In Windows Vista when using Image Manager, both 32-bit and 64-bit versions, you have to turn off UAC at first. The steps are described as follows:

a. Click “Control Panel”.

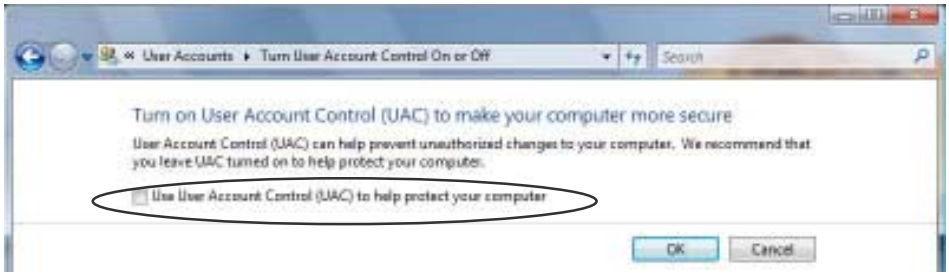
b. Click “User Accounts”.

c. Click “Turn User Account Control On or Off”.

d. Uncheck “Use User Account Control (UAC) to help protect your computer”.

e. Power up the PC again.

Thus, you can use Image Manager normally.


User Accounts ▸ Turn User Account Control On or Off
Search
Turn on User Account Control (UAC) to make your computer more secure
User Account Control (UAC) can help prevent unauthorized changes to your computer. We recommend that you leave UAC turned on to help protect your computer.
Use User Account Control (UAC) to help protect your computer
OK
Cancel

Now use Image Manager according to the following steps.

(1) Click the icon of the last host card to see the newly connected hard drive. The last host card has no title, but it represents AEC-4420P.

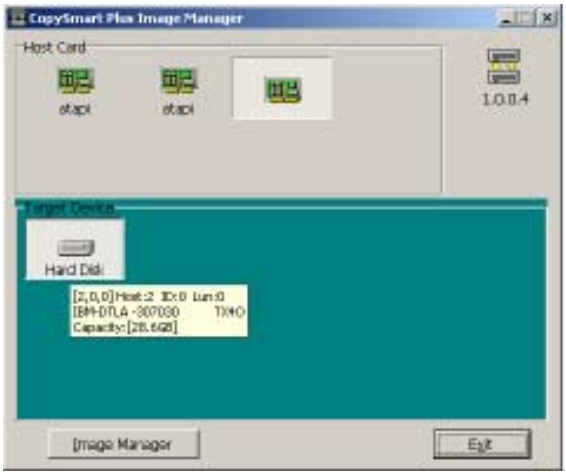


Figure 1

(2) On Figure 1 move the cursor to the hard drive to see its capacity and so on. Now click [Image Manager] to enter Figure 2.

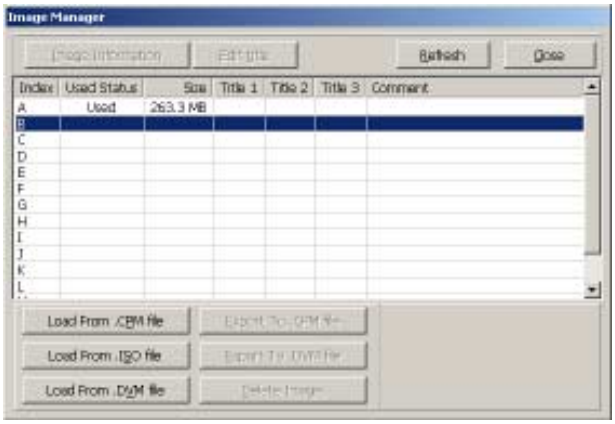


Figure 2

(3) On Figure 2 choose a partition of the hard drive like B where you want to put the image file transmitted from the system's hard drive. And also choose the form of the file such as .CPM, .ISO or .DVM.

(4) Now suppose you want to choose an image file of 1.ISO and click [Open].

Figure 3

(5) After opening the file, you will enter Figure 4 and see the information.

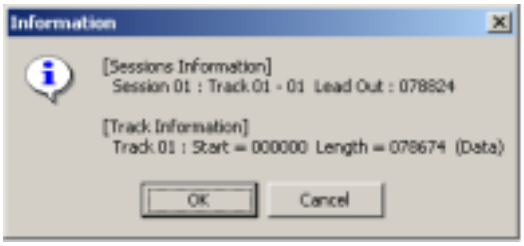

Information
[Sessions Information]
Session 01 : Track 01 - 01 Lead Out : 078824
[Track Information]
Track 01 : Start = 000000 Length = 078674 (Data)
OK
Cancel

Figure 4

(6) Click [OK] to transmit the image file as Figure 5 shows.

Figure 5

(7) After transmission, if it is successful, there will be a message showing so.

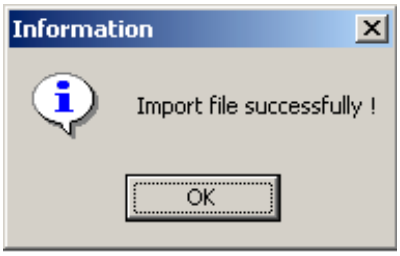


Figure 6

(8) You can see the newly transmitted file appear in partition B as Figure 7 shows.

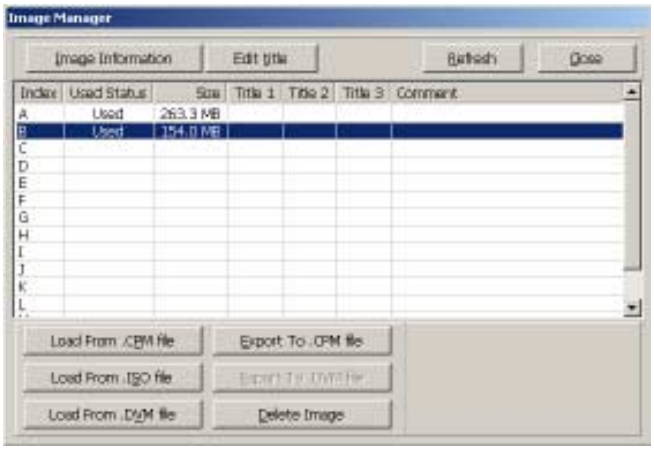


Figure 7

(9) On Figure 7 click [Image Information] to see the file's information as Figure 8 shows.

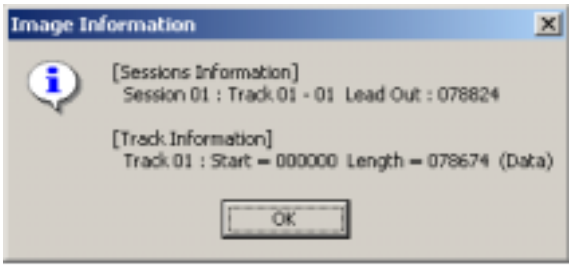


Image Information
[Sessions Information]
Session 01 : Track 01 - 01 Lead Out : 078824
[Track Information]
Track 01 : Start = 000000 Length = 078674 (Data)
OK

Figure 8

(10) On Figure 8 click [OK] to return to Figure 7. Then click [Edit title] to edit the title of the file. You can edit three titles at most, and decide whether to give a comment or not.

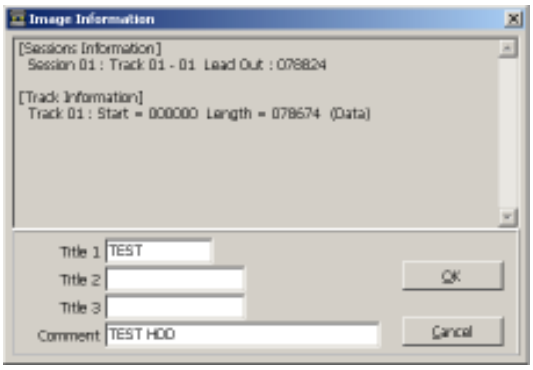


Figure 9

(11) After editing and clicking [OK], you will enter Figure 10.

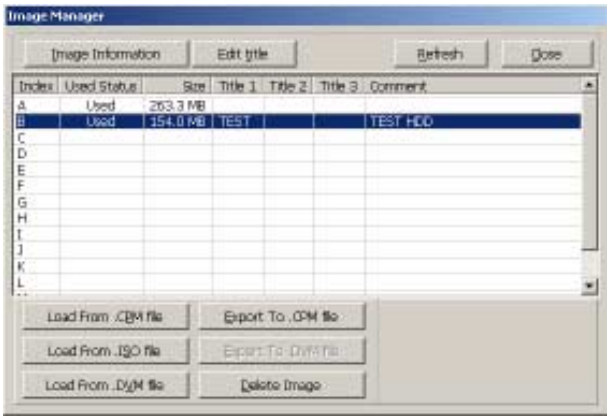


Figure 10

(12) Close the small green icon of Image Manager at the right down corner by right-clicking. The purpose is letting PC detect the connected hard drive again when you want to transmit an image file next time.

Now press ▲ on the copy controller's panel and see **"Back to SA-Mode? Yes"** display on the LCD. Press ENT to return to standalone mode. After turning on the copy controller again, choose 8. Select Source, and then HDD.

Appendix B LCD Messages

1. Normal Conditions:

Initialize SDRAM.....Initialize the memory of the system.

Detect Drives.....Detect what drives are connected with the system.

User Abort!.....Cancel the job during operation.

Analyzing.....Analyze the source disc.

Source Drive Not Ready.....Source drive is not ready to read.

Target Drive Not Ready.....Target drive is not ready to write.

Source Disc Not Ready..... Source disc is not ready to be read.

Target Disc Not Ready..... Target disc is not ready to be written into.

Erasing disc.....The system is erasing the data on the disc.

Fail to get Drive Info!..... The drive information cannot be obtained.

Fail to get Src Disc Info!..... The information of source disc cannot be obtained.

Save new config Fail!..... The new setting of configuration cannot be saved.

Load Default Config?.....Do you want to load the default settings?

Src&Tgt can't in the same channel.....During comparison the source and target discs cannot be in the same channel.

Preparing..... The system is preparing to record.

Check Target Please Wait .....The system is checking the target device.

Audio Disc!!! Can't compare!..... The system cannot compare the audio discs.

Identical..... The comparison results are the same.

Read disc error .....During comparison the disc cannot be read.

Cannot read TOC..... The system cannot read the contents of disc.

TOC not match..... The comparison results are not the same.

Source Disc Empty!!!..... The source disc doesn't contain any data.

Target overflow..... The target disc hasn't enough capacity to store new data.

Target Disc Not Empty!!!..... The target disc still has data.

Press a Key to Eject Good Disc... Press any ket to eject the good disc after copying

Press a Key to Eject Fail Disc.....Press any key to eject the failed disc after copying.

DVD-RW does not Support the Func..... DVD-RW doesn't support this function.

Hold ESC to exit..... Press **ESC** for a second to terminate the test.

All data will be lost, erase?.....All data on the disc will be lost. Confirm the erasing of data.

Erase Finished..... The erasing of data comes to an end.

No Erasable Disc in DVD-RW!!.....The disc on the DVD-RW device is not rewritable.

2. Connecting with a HDD:

HDD not Format!.....The hard disk hasn't been formatted yet.

Format HDD?..... Ask if you want to format the hard disk.

All data will be lost, format?.....All data on the hard disk will be lost. Confirm the formatting of hard disk.

Format HDD OK! .....The Formatting of hard disk has been completed.

Image load OK..... The image is successfully loaded from DVD to the hard disk.

Image load Fail.....The image isn't successfully loaded from DVD to the hard disk.

HDD too small to handle image!.....The hard disk hasn't enough capacity to store the data image (at least 5Gbytes).

No Valid HDD!..... The system cannot find a hard disk.

HDD too small ..... The capacity of hard disk is too small.

No Image in Partition xx.....There is no data image in partition xx.

Image Exists Overwrite?.....There is a data image in the current partition. Confirm the overwriting of data.

Delete Image in Partition xx?....Confirm the deleting of data image in partition xx.

Partition Damage.....The partition is damaged.

Verify Disk or Partition?..... Do you want to verify the hard disk or just a partition?

Verify Hard Disk OK!..... The hard disk is verified successfully.
Verify Hard Disk Fail!..... The hard disk is not verified successfully.
Verify Partition Header!..... Verify the partition header.
Select HD First!..... Select a formatted hard disk at first.

3. Audio Editing:

Erase selected Tracks?..... Abort the selected tracks and delete them.
End edit disc and burn?..... Finish the music disc editing and start to copy.
Continue edit next Disc?..... Ask if you want to continue the music disc editing.
Target Overflow Re-Select..... The disc capacity is not enough to store the selected tracks. Please select again.
Close all disc's session?...... Confirm the closing of disc sessions.
Can't edit HDD...... The hard disk cannot be edited as a source audio disc.
NO AUDIO track in this disc..... The source disc has no audio track.
Insert next disc...... Insert the next audio disc.
Sessions were closed already!..... The disc sessions have already been closed.
Burn or Move to partition?..... Do you want to directly copy the data into disc or move them to the partition.
Tgt overflow, del last trk?...... The disc capacity is not enough to store the selected tracks. So, do you want to delete the last track?
Ins empty disc Continue?.. Do you want to insert a blank disc and continue copying?

4. Firmware Update:

Invalid firmware..... The disc doesn't contain a valid firmware.
Updating F/W.....The system is updating the firmware.
Update F/W xxx to yyy?..... Do you want to update the firmware version from xxx to yyy?
Searching F/W ..... The system is searching for a valid firmware.

Check Sum Error!..... The udpated firmware has errors.
Source can't be Hard Disk!.....During comparison the source cannot be hard disk.
Last update F/W OK!..... The firmware is updated successfully.
Last update F/W Fail!..... The firmware is not updated successfully.
Flash ROM fail!..... Data cannot be written into Flash ROM.

Technical Support Form

Email: **support@acard.com**
http://www.acard.com

Model		**F/W Version**	

	Model	F/W Version
CD-ROM		
CD Writer		

Hard Disk Model/type		
Capacity		
Firmware version		

Others	

Problem Description